

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:SSSPTA1623PAZ

PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

* * * * * * * * * Welcome to STN International * * * * * * * * *

NEWS 1 Web Page for STN Seminar Schedule - N. America
NEWS 2 NOV 21 CAS patent coverage to include exemplified prophetic substances identified in English-, French-, German-, and Japanese-language basic patents from 2004-present
NEWS 3 NOV 26 MARPAT enhanced with FSORT command
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NEWS 11 FEB 02 Simultaneous left and right truncation (SLART) added for CERAB, COMPUAB, ELCOM, and SOLIDSTATE
NEWS 12 FEB 02 GENBANK enhanced with SET PLURALS and SET SPELLING
NEWS 13 FEB 06 Patent sequence location (PSL) data added to USGENE
NEWS 14 FEB 10 COMPENDEX reloaded and enhanced
NEWS 15 FEB 11 WTEXTILES reloaded and enhanced
NEWS 16 FEB 19 New patent-examiner citations in 300,000 CA/CAplus patent records provide insights into related prior art
NEWS 17 FEB 19 Increase the precision of your patent queries -- use terms from the IPC Thesaurus, Version 2009.01
NEWS 18 FEB 23 Several formats for image display and print options discontinued in USPATFULL and USPAT2
NEWS 19 FEB 23 MEDLINE now offers more precise author group fields and 2009 MeSH terms
NEWS 20 FEB 23 TOXCENTER updates mirror those of MEDLINE - more precise author group fields and 2009 MeSH terms
NEWS 21 FEB 23 Three million new patent records blast AEROSPACE into STN patent clusters
NEWS 22 FEB 25 USGENE enhanced with patent family and legal status display data from INPADOCDB
NEWS 23 MAR 06 INPADOCDB and INPAFAMDB enhanced with new display formats
NEWS 24 MAR 11 EPFULL backfile enhanced with additional full-text applications and grants
NEWS 25 MAR 11 ESBIOTBASE reloaded and enhanced

NEWS EXPRESS JUNE 27 08 CURRENT WINDOWS VERSION IS V8.3,
AND CURRENT DISCOVER FILE IS DATED 23 JUNE 2008.

NEWS HOURS	STN Operating Hours Plus Help Desk Availability
NEWS LOGIN	Welcome Banner and News Items
NEWS IPC8	For general information regarding STN implementation of IPC 8

Enter NEWS followed by the item number or name to see news on that specific topic.

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FILE 'HOME' ENTERED AT 05:58:12 ON 17 MAR 2009

FILE 'REGISTRY' ENTERED AT 05:58:40 ON 17 MAR 2009
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Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 15 MAR 2009 HIGHEST RN 1121544-94-2
DICTIONARY FILE UPDATES: 15 MAR 2009 HIGHEST RN 1121544-94-2

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH January 9, 2009.

Please note that search-term pricing does apply when conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stnqgen/stndoc/properties.html>

=> logoff hold	SINCE FILE	TOTAL
COST IN U.S. DOLLARS	ENTRY	SESSION
FULL ESTIMATED COST	0.48	0.70

SESSION WILL BE HELD FOR 120 MINUTES
STN INTERNATIONAL SESSION SUSPENDED AT 05:59:02 ON 17 MAR 2009

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:SSSPTA1623PAZ

PASSWORD:

* * * * * RECONNECTED TO STN INTERNATIONAL * * * * *

SESSION RESUMED IN FILE 'REGISTRY' AT 06:07:51 ON 17 MAR 2009

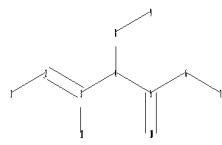
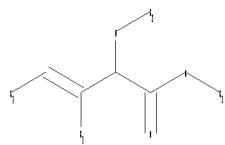
FILE 'REGISTRY' ENTERED AT 06:07:51 ON 17 MAR 2009

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COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.48	0.70

=>

Uploading C:\Documents and Settings\PZucker\My Documents\Examination Auxillary files\10566995\10566995 genus clm 1.str



chain nodes :

1 2 3 4 5 6 7 8 9 10 11

chain bonds :

1-2 2-3 3-4 3-11 4-5 4-8 5-6 5-10 6-7 8-9

exact/norm bonds :

1-2 3-11 4-8 5-6 5-10 6-7 8-9
exact bonds :
2-3 3-4 4-5

G1:H,Cb

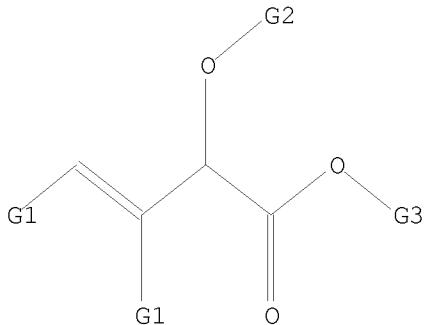
G2:Cb,Cy,Hy

G3:H,Ak

Hydrogen count :
2:>= minimum 1
Match level :
1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 7:CLASS 8:CLASS 9:CLASS
10:CLASS 11:CLASS

L1 STRUCTURE UPLOADED

=> d 11
L1 HAS NO ANSWERS
L1 STR



G1 H,Cb
G2 Cb,Cy,Hy
G3 H,Ak

Structure attributes must be viewed using STN Express query preparation.

=> search 11 sss sam
SAMPLE SEARCH INITIATED 06:09:29 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 8652 TO ITERATE

23.1% PROCESSED 2000 ITERATIONS 0 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 167464 TO 178616
PROJECTED ANSWERS: 0 TO 0

L2 0 SEA SSS SAM L1

```
=> search l1 sss full
FULL SEARCH INITIATED 06:10:03 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 173200 TO ITERATE
```

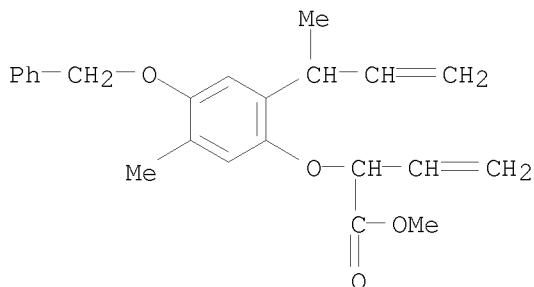
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100.0% PROCESSED 173200 ITERATIONS
SEARCH TIME: 00.00.03
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```
29 ANSWERS
```

```
L3 29 SEA SSS FUL L1
```

```
=> d scan
```

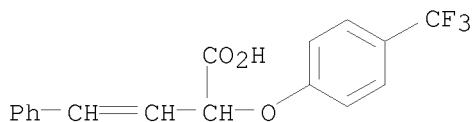
```
L3 29 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN
IN 3-Butenoic acid, 2-[5-methyl-2-(1-methyl-2-propen-1-yl)-4-
(phenylmethoxy)phenoxy]-, methyl ester
MF C23 H26 O4
```



```
**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**
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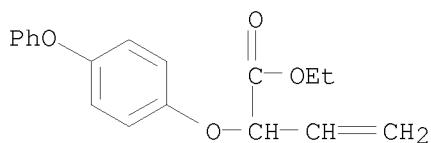
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HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):29
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L3 29 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN
IN 3-Butenoic acid, 4-phenyl-2-[4-(trifluoromethyl)phenoxy]-
MF C17 H13 F3 O3
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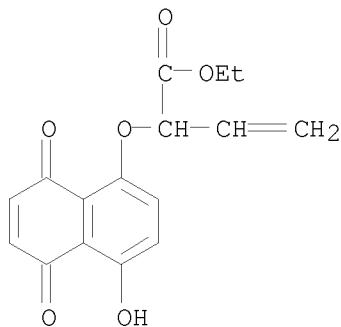
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**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**
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```
L3 29 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN
IN 3-Butenoic acid, 2-(4-phenoxyphenoxy)-, ethyl ester
MF C18 H18 O4
```



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

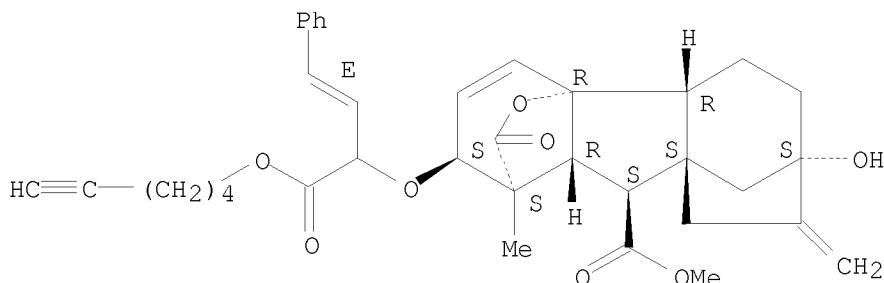
L3 29 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN
 IN 3-Butenoic acid, 2-[(5,8-dihydro-4-hydroxy-5,8-dioxo-1-naphthalenyl)oxy]-, ethyl ester
 MF C16 H14 O6



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

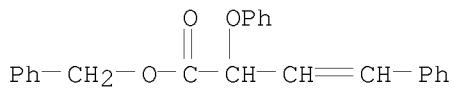
L3 29 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN
 IN Gibb-3-ene-1,10-dicarboxylic acid,
 2-[(2E)-1-[(5-hexyn-1-yloxy)carbonyl]-3-phenyl-2-propen-1-yl]oxy]-4a,7-
 dihydroxy-1-methyl-8-methylene-, 1,4a-lactone, 10-methyl ester,
 (1 α ,2 β ,4a α ,4b β ,10 β)-
 MF C36 H40 O8

Absolute stereochemistry.
 Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

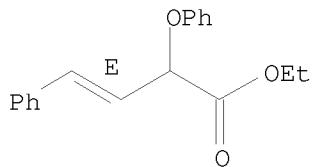
L3 29 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN
IN 3-Butenoic acid, 2-phenoxy-4-phenyl-, phenylmethyl ester
MF C23 H20 O3



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

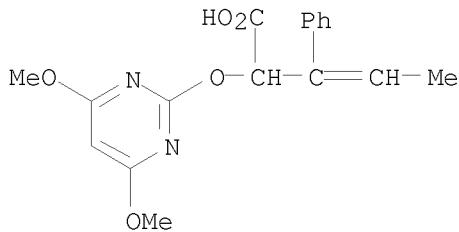
L3 29 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN
IN 3-Butenoic acid, 2-phenoxy-4-phenyl-, ethyl ester, (E)- (9CI)
MF C18 H18 O3

Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 29 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN
IN Benzenepropanoic acid, α -[(4,6-dimethoxy-2-pyrimidinyl)oxy]- β -ethylidene-
MF C17 H18 N2 O5



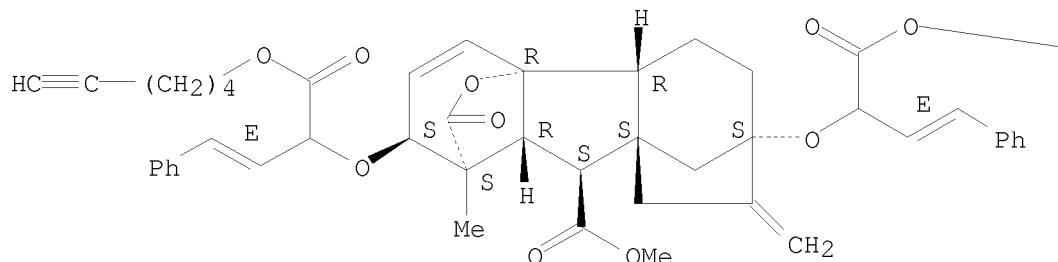
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 29 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN
IN Gibb-3-ene-1,10-dicarboxylic acid,
2,7-bis[[(2E)-1-[(5-hexyn-1-yloxy)carbonyl]-3-phenyl-2-propen-1-yl]oxy]-4a-hydroxy-1-methyl-8-methylene-, 1,4a-lactone, 10-methyl ester,

($1\alpha, 2\beta, 4\alpha\alpha, 4\beta\beta, 10\beta$)-
MF C52 H56 O10

Absolute stereochemistry.
Double bond geometry as shown.

PAGE 1-A

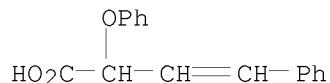


PAGE 1-B

$\sim (\text{CH}_2)_4 - \text{C}\equiv\text{CH}$

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

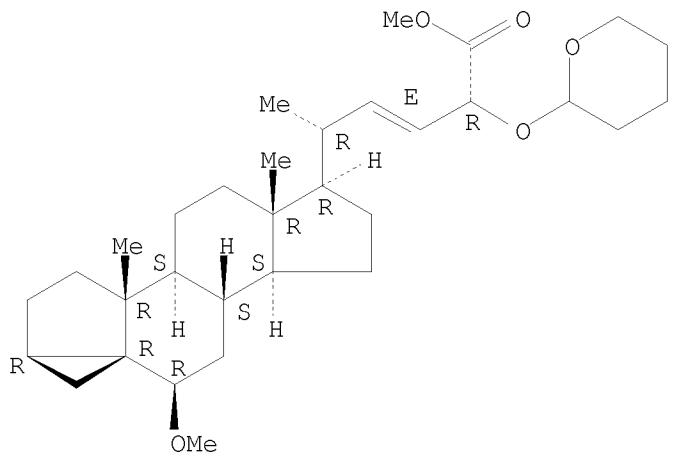
L3 29 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN
IN 3-Butenoic acid, 2-phenoxy-4-phenyl-
MF C16 H14 O3



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

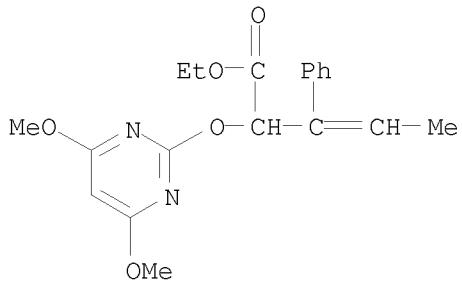
L3 29 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN
IN 3,5-Cyclochol-22-ene-24-carboxylic acid,
6-methoxy-24-[(tetrahydro-2H-pyran-2-yl)oxy]-, methyl ester,
($3\alpha, 5R, 6\beta, 22E, 24R$)- (9CI)
MF C32 H50 O5

Absolute stereochemistry.
Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

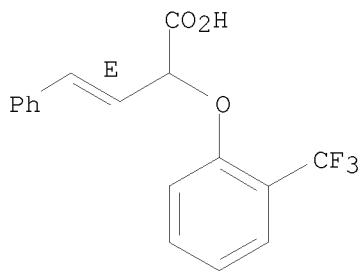
L3 29 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN
 IN Benzenepropanoic acid, α -[(4,6-dimethoxy-2-pyrimidinyl)oxy]- β -ethylidene-, ethyl ester
 MF C19 H22 N2 O5



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

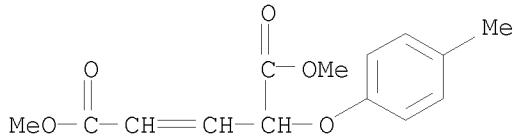
L3 29 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN
 IN 3-Butenoic acid, 4-phenyl-2-[2-(trifluoromethyl)phenoxy]-, (3E)-
 MF C17 H13 F3 O3

Double bond geometry as shown.



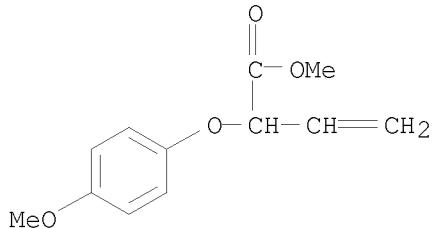
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 29 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN
 IN INDEX NAME NOT YET ASSIGNED
 MF C14 H16 O5



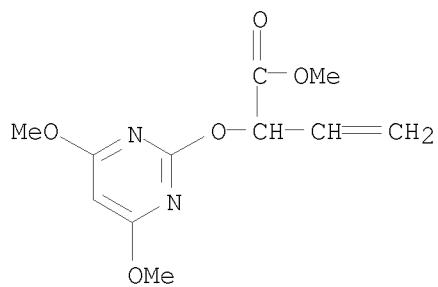
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 29 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN
 IN 3-Butenoic acid, 2-(4-methoxyphenoxy)-, methyl ester
 MF C12 H14 O4



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

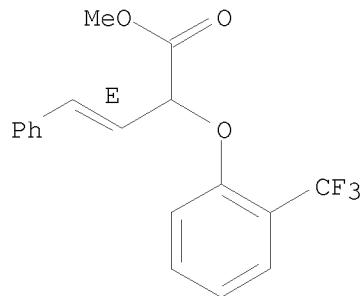
L3 29 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN
 IN 3-Butenoic acid, 2-[(4,6-dimethoxy-2-pyrimidinyl)oxy]-, methyl ester
 MF C11 H14 N2 O5



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 29 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN
 IN 3-Butenoic acid, 4-phenyl-2-[2-(trifluoromethyl)phenoxy]-, methyl ester,
 (3E)-
 MF C18 H15 F3 O3

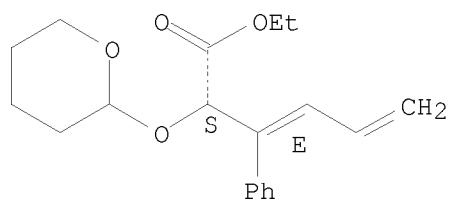
Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

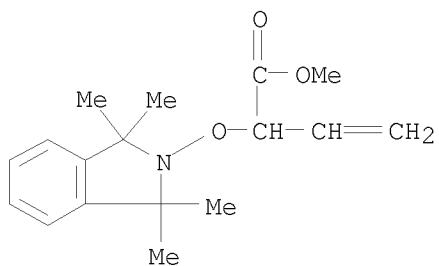
L3 29 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN
 IN Benzene propanoic acid, β -2-propen-1-ylidene- α -[(tetrahydro-2H-pyran-2-yl)oxy]-, ethyl ester, (α S, β E)-
 MF C19 H24 O4

Absolute stereochemistry.
 Double bond geometry as shown.



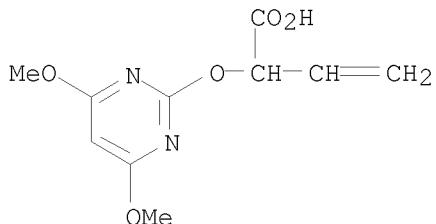
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 29 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN
IN 3-Butenoic acid, 2-[(1,3-dihydro-1,1,3,3-tetramethyl-2H-isoindol-2-yl)oxy]-
, methyl ester
MF C17 H23 N O3



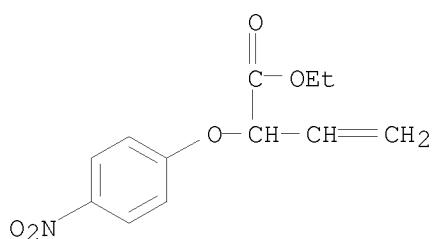
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 29 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN
IN 3-Butenoic acid, 2-[(4,6-dimethoxy-2-pyrimidinyl)oxy]-
MF C10 H12 N2 O5



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

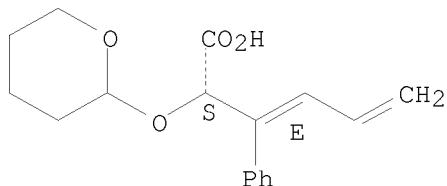
L3 29 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN
IN 3-Butenoic acid, 2-(4-nitrophenoxy)-, ethyl ester
MF C12 H13 N O5



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

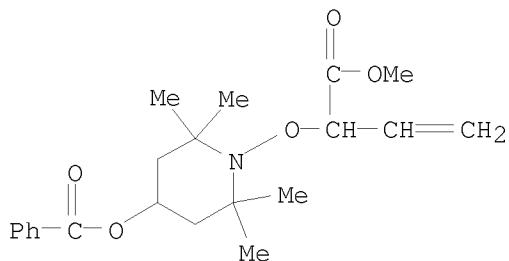
L3 29 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN
IN Benzenepropanoic acid, β -2-propen-1-ylidene- α -[(tetrahydro-2H-pyran-2-yl)oxy]-, (α S, β E)-
MF C17 H20 O4

Absolute stereochemistry.
Double bond geometry as shown.



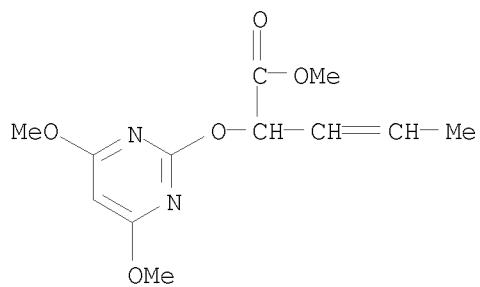
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 29 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN
IN 3-Butenoic acid, 2-[4-(benzoyloxy)-2,2,6,6-tetramethyl-1-piperidinyl]oxy-, methyl ester
MF C21 H29 N O5



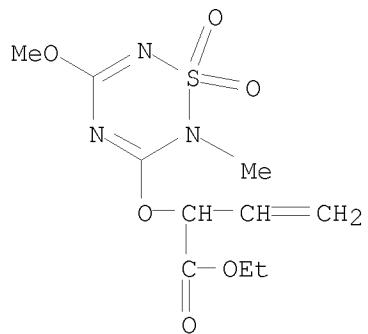
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 29 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN
IN 3-Pentenoic acid, 2-[(4,6-dimethoxy-2-pyrimidinyl)oxy]-, methyl ester
MF C12 H16 N2 O5



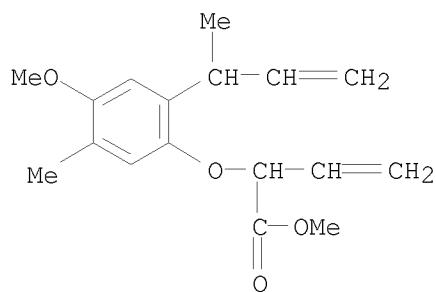
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 29 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN
 IN 3-Butenoic acid, 2-[5-methoxy-2-methyl-1,1-dioxido-2H-1,2,4,6-thatriazin-3-yl]oxy]-, ethyl ester
 MF C10 H15 N3 O6 S



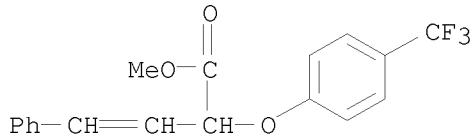
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 29 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN
 IN 3-Butenoic acid, 2-[4-methoxy-5-methyl-2-(1-methyl-2-propen-1-yl)phenoxy]-, methyl ester
 MF C17 H22 O4



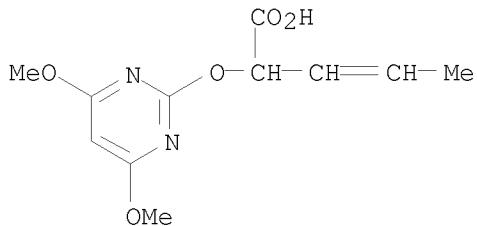
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 29 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN
IN 3-Butenoic acid, 4-phenyl-2-[4-(trifluoromethyl)phenoxy]-, methyl ester
MF C18 H15 F3 O3



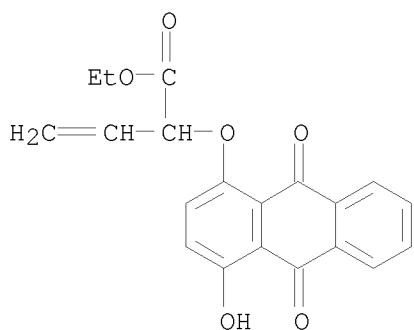
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 29 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN
IN 3-Pentenoic acid, 2-[(4,6-dimethoxy-2-pyrimidinyl)oxy]-
MF C11 H14 N2 O5



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 29 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN
IN 3-Butenoic acid, 2-[(9,10-dihydro-4-hydroxy-9,10-dioxo-1-anthracenyl)oxy]-,
ethyl ester
MF C20 H16 O6



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

ALL ANSWERS HAVE BEEN SCANNED

=> file caplus			
COST IN U.S. DOLLARS	SINCE FILE	TOTAL	
FULL ESTIMATED COST	ENTRY	SESSION	
	189.24	189.46	

FILE 'CAPLUS' ENTERED AT 06:12:13 ON 17 MAR 2009
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FILE COVERS 1907 - 17 Mar 2009 VOL 150 ISS 12
FILE LAST UPDATED: 16 Mar 2009 (20090316/ED)

Caplus now includes complete International Patent Classification (IPC) reclassification data for the third quarter of 2008.

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<http://www.cas.org/legal/infopolicy.html>

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> 13
L4 14 L3

=> d 14 1-14 ti

L4 ANSWER 1 OF 14 CAPLUS COPYRIGHT 2009 ACS on STN
TI Simultaneous Arming and Structure/Activity Studies of Natural Products Employing O-H Insertions: An Expedient and Versatile Strategy for Natural Products-Based Chemical Genetics

L4 ANSWER 2 OF 14 CAPLUS COPYRIGHT 2009 ACS on STN
TI Total synthesis of heliannuol B, an allelochemical from Helianthus annuus

L4 ANSWER 3 OF 14 CAPLUS COPYRIGHT 2009 ACS on STN
TI Enantioselective Reductive Coupling of 1,3-Enynes to Glyoxalates Mediated by Hydrogen: Asymmetric Synthesis of β,γ -Unsaturated α -Hydroxy Esters

L4 ANSWER 4 OF 14 CAPLUS COPYRIGHT 2009 ACS on STN
TI Preparation of 4-phenyl-but-3-enoic acid derivatives, as peroxisome proliferator-activated receptors (PPAR) ligands, in particular PPAR α

and PPAR γ agonists, for the treatment and prevention of diabetes, dyslipidemia, atherosclerosis

L4 ANSWER 5 OF 14 CAPLUS COPYRIGHT 2009 ACS on STN
TI Enantioselective Synthesis of a Novel Trans Double Bond Ceramide Analog via Catalytic Asymmetric Dihydroxylation of an Enyne. The Role of the Trans Double Bond of Ceramide in the Fusion of Semliki Forest Virus with Target Membranes

L4 ANSWER 6 OF 14 CAPLUS COPYRIGHT 2009 ACS on STN
TI Preparation of (24R)- or (24S)-24,25-dihydroxycholesterol and its intermediates

L4 ANSWER 7 OF 14 CAPLUS COPYRIGHT 2009 ACS on STN
TI A Stereospecific Access to Allylic Systems Using Rhodium(II)-Vinyl Carbenoid Insertion into Si-H, O-H, and N-H Bonds

L4 ANSWER 8 OF 14 CAPLUS COPYRIGHT 2009 ACS on STN
TI Electronic versus steric effects in 5-endo-trig-like electrophilic cyclizations

L4 ANSWER 9 OF 14 CAPLUS COPYRIGHT 2009 ACS on STN
TI Preparation of 2-(2-chloro-2-fluorocyclopropyl)acetates and -acetamides as pesticides

L4 ANSWER 10 OF 14 CAPLUS COPYRIGHT 2009 ACS on STN
TI Preparation of 2-aryl-2-(2-pyrimidinyloxy)acetates and analogs as agrochemicals

L4 ANSWER 11 OF 14 CAPLUS COPYRIGHT 2009 ACS on STN
TI Azinylalkanoates as herbicides

L4 ANSWER 12 OF 14 CAPLUS COPYRIGHT 2009 ACS on STN
TI Successive Michael reaction-sigmatropic rearrangement of polyquinones with silyl ketene acetals

L4 ANSWER 13 OF 14 CAPLUS COPYRIGHT 2009 ACS on STN
TI A new approach to linear tetracycles via Michael reactions to quinizarinquinone with O-silylated ketene acetals

L4 ANSWER 14 OF 14 CAPLUS COPYRIGHT 2009 ACS on STN
TI 1,2,4,6-Thatriazine-1,1-dioxides and their use for controlling unwanted plant growth

FILE 'REGISTRY' ENTERED AT 06:16:47 ON 17 MAR 2009
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DICTIONARY FILE UPDATES: 15 MAR 2009 HIGHEST RN 1121544-94-2

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TSCA INFORMATION NOW CURRENT THROUGH January 9, 2009.

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<http://www.cas.org/support/stngen/stndoc/properties.html>

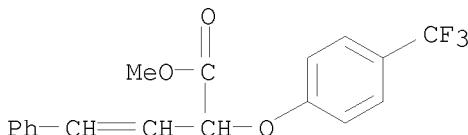
=> e 3-Butenoic acid, 4-phenyl-2-(4-(trifluoromethyl)phenoxy)-, methyl ester/cn
E1 1 3-BUTENOIC ACID, 4-PHENYL-2-(2-THIENYLMETHYLENE)-, INNER SAL
T/CN
E2 1 3-BUTENOIC ACID, 4-PHENYL-2-(4-(TRIFLUOROMETHYL)PHENOXY)-/CN
E3 1 --> 3-BUTENOIC ACID, 4-PHENYL-2-(4-(TRIFLUOROMETHYL)PHENOXY)-, M
ETHYL ESTER/CN
E4 1 3-BUTENOIC ACID, 4-PHENYL-2-(4-QUINAZOLINYLHYDRAZONO)-/CN
E5 1 3-BUTENOIC ACID, 4-PHENYL-2-(PHENYLAMINO)-, ETHYL ESTER, (E)
-/CN
E6 1 3-BUTENOIC ACID, 4-PHENYL-2-(PHENYLAMINO)-, METHYL ESTER, (3
E)-/CN
E7 1 3-BUTENOIC ACID, 4-PHENYL-2-(PHENYLIMINO)-/CN
E8 1 3-BUTENOIC ACID, 4-PHENYL-2-(PHENYLMETHOXY)-, (3R)-TETRAHYDR
O-4, 4-DIMETHYL-2-OXO-3-FURANYL ESTER, (2S,3E)-/CN
E9 1 3-BUTENOIC ACID, 4-PHENYL-2-(PHENYLMETHOXY)-, METHYL ESTER/C
N
E10 1 3-BUTENOIC ACID, 4-PHENYL-2-(PHENYLMETHOXY)-, METHYL ESTER,
(3E)-/CN
E11 1 3-BUTENOIC ACID, 4-PHENYL-2-(PHENYLMETHYLENE)-/CN
E12 1 3-BUTENOIC ACID, 4-PHENYL-2-(PHENYLMETHYLENE)-, BUTYL ESTER,
(2E,3E)-/CN

=> e3

L5 1 "3-BUTENOIC ACID, 4-PHENYL-2-(4-(TRIFLUOROMETHYL)PHENOXY)-, METH
YL ESTER"/CN

=> d 15

L5 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2009 ACS on STN
RN 841202-08-2 REGISTRY
ED Entered STN: 03 Mar 2005
CN 3-Butenoic acid, 4-phenyl-2-[4-(trifluoromethyl)phenoxy]-, methyl
ester (CA INDEX NAME)
OTHER NAMES:
CN Methyl 4-phenyl-2-[(4-trifluoromethylphenyl)oxy]but-3-enoate
MF C18 H15 F3 O3
SR CA
LC STN Files: CA, CAPLUS, CASREACT, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> file caplus			
COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL	
FULL ESTIMATED COST	8.36	SESSION	207.14

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FILE COVERS 1907 - 17 Mar 2009 VOL 150 ISS 12
FILE LAST UPDATED: 16 Mar 2009 (20090316/ED)

Caplus now includes complete International Patent Classification (IPC) reclassification data for the third quarter of 2008.

CAS Information Use Policies apply and are available at:

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This file contains CAS Registry Numbers for easy and accurate substance identification.

=> 15
L6 1 L5

=> d 16 ti fbib abs

L6 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2009 ACS on STN
TI Preparation of 4-phenyl-but-3-enoic acid derivatives, as peroxisome proliferator-activated receptors (PPAR) ligands, in particular PPAR α and PPAR γ agonists, for the treatment and prevention of diabetes, dyslipidemia, atherosclerosis
AN 2005:119915 CAPLUS
DN 142:219047
TI Preparation of 4-phenyl-but-3-enoic acid derivatives, as peroxisome proliferator-activated receptors (PPAR) ligands, in particular PPAR α and PPAR γ agonists, for the treatment and prevention of diabetes, dyslipidemia, atherosclerosis
IN Zeiller, Jean Jacques; Dumas, Herve; Guyard Dangremont, Valerie; Berard, Isabelle; Contard, Francis; Guerrier, Daniel; Ferrand, Gerard; Bonhomme, Yves
PA Merck Sante, Fr.
SO Fr. Demande, 38 pp.
CODEN: FRXXBL
DT Patent

LA French

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	FR 2858615	A1	20050211	FR 2003-9610	20030804
	FR 2858615	B1	20061222		
	AU 2004263254	A1	20050217	AU 2004-263254 FR 2003-9610 WO 2004-EP7776	20040714 A 20030804 W 20040714
	CA 2534493	A1	20050217	CA 2004-2534493 FR 2003-9610 WO 2004-EP7776	20040714 A 20030804 W 20040714
	WO 2005014521	A1	20050217	WO 2004-EP7776	20040714
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
EP	1658260	A1	20060524	FR 2003-9610 EP 2004-740992	A 20030804 20040714
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK				
				FR 2003-9610 WO 2004-EP7776	A 20030804 W 20040714
JP	2007501190	T	20070125	JP 2006-522255 FR 2003-9610 WO 2004-EP7776	20040714 A 20030804 W 20040714
US	20060178434	A1	20060810	US 2006-566995 FR 2003-9610 WO 2004-EP7776	20060202 A 20030804 W 20040714

OS CASREACT 142:219047; MARPAT 142:219047

GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB Title compds. I [wherein R1 = alkyl, (un)substituted heterocycl, (un)substituted aryl or/and (un)condensed with a (un)saturated monocyclic or polycyclic; R2, R3 = independently H, (un)substituted aryl; or R2R3 = alkylene; R = H, aryl/alkyl; their acid and base addition salts; with proviso; their derivs., solvates, and stereoisomers and their mixts., and their pharmaceutically acceptable salts] were prepared as peroxisome proliferator-activated receptors (PPAR)- α and PPAR γ agonists for treating diabetes, dyslipidemia, atherosclerosis (no data). For example, II was prepared, in 4 steps, reacting 2-oxo-4-phenylbut-3-enoic acid sodium salt with methanol, followed by reduction, alkylation of the alc. with MeI, and saponification III at a concentration of 50 μ M was a PPAR α and PPAR γ agonist, showing induced luciferase activity via PPAR α /Gal4 and PPAR γ /Gal4 with a factor of induction of 2.3 and 6.4, resp. Thus, I and their compns. are useful for treating and preventing dyslipidemia, atherosclerosis and diabetes (no data).

RE.CNT 12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> file reg			
COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION	
FULL ESTIMATED COST	12.50	219.64	
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION	
CA SUBSCRIBER PRICE	-0.82	-0.82	

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 DICTIONARY FILE UPDATES: 15 MAR 2009 HIGHEST RN 1121544-94-2

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TSCA INFORMATION NOW CURRENT THROUGH January 9, 2009.

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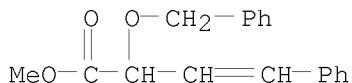
REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stndoc/properties.html>

=> e9
 L7 1 "3-BUTENOIC ACID, 4-PHENYL-2-(PHENYLMETHOXY)-, METHYL ESTER"/CN

=> d 17

L7 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2009 ACS on STN
 RN 835914-70-0 REGISTRY
 ED Entered STN: 23 Feb 2005
 CN 3-Butenoic acid, 4-phenyl-2-(phenylmethoxy)-, methyl ester (CA INDEX NAME)
 MF C18 H18 O3
 SR CA
 LC STN Files: CA, CAPLUS, CASREACT, TOXCENTER



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> file caplus			
COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION	
FULL ESTIMATED COST	7.88	227.52	
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION	
CA SUBSCRIBER PRICE	0.00	-0.82	

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FILE COVERS 1907 - 17 Mar 2009 VOL 150 ISS 12
 FILE LAST UPDATED: 16 Mar 2009 (20090316/ED)

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=> d 17 ti fbib abs
 YOU HAVE REQUESTED DATA FROM FILE 'REGISTRY' - CONTINUE? (Y)/N:n

=> 17
 L8 1 L7

=> d 18 ti fbib abs

L8 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2009 ACS on STN
 TI Three-Component Reaction of Aryl Diazoacetates, Alcohols, and Aldehydes (or Imines): Evidence of Alcoholic Oxonium Ylide Intermediates
 AN 2004:1068128 CAPLUS
 DN 142:197447
 TI Three-Component Reaction of Aryl Diazoacetates, Alcohols, and Aldehydes (or Imines): Evidence of Alcoholic Oxonium Ylide Intermediates
 AU Lu, Chong-Dao; Liu, Hui; Chen, Zhi-Yong; Hu, Wen-Hao; Mi, Ai-Qiao
 CS Key Laboratory for Asymmetric Synthesis and Chirotechnology of Sichuan Province, Chengdu Institute of Organic Chemistry, Chinese Academy of Sciences, Chengdu, 610041, Peop. Rep. China
 SO Organic Letters (2005), 7(1), 83-86
 CODEN: ORLEF7; ISSN: 1523-7060
 PB American Chemical Society
 DT Journal

LA English
OS CASREACT 142:197447
AB The Rh(II)-catalyzed three-component reaction of aryl diazoacetates, alcs. and aldehydes was explored, which provided evidence of alc. oxonium ylide formation for O-H insertion. A new C-C bond formation reaction where alc. oxonium ylides were trapped by electron-deficient aryl aldehydes (or imines) was realized.

RE.CNT 37 THERE ARE 37 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> file reg
COST IN U.S. DOLLARS SINCE FILE TOTAL
SESSION
FULL ESTIMATED COST ENTRY 8.00 SESSION 235.52

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) SINCE FILE TOTAL
SESSION
CA SUBSCRIBER PRICE ENTRY -0.82 SESSION -1.64

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STRUCTURE FILE UPDATES: 15 MAR 2009 HIGHEST RN 1121544-94-2
DICTIONARY FILE UPDATES: 15 MAR 2009 HIGHEST RN 1121544-94-2

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<http://www.cas.org/support/stngen/stndoc/properties.html>

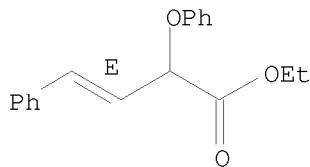
=> e 3-Butenoic acid, 2-phenoxy-4-phenyl-, ethyl ester/cn
E1 1 3-BUTENOIC ACID, 2-PHENOXY-4-PHENYL-/CN
E2 1 3-BUTENOIC ACID, 2-PHENOXY-4-PHENYL-, (3R)-TETRAHYDRO-4,4-DIMETHYL-2-OXO-3-FURANYL ESTER, (2S,3E)-/CN
E3 0 --> 3-BUTENOIC ACID, 2-PHENOXY-4-PHENYL-, ETHYL ESTER/CN
E4 1 3-BUTENOIC ACID, 2-PHENOXY-4-PHENYL-, ETHYL ESTER, (E)-/CN
E5 1 3-BUTENOIC ACID, 2-PHENOXY-4-PHENYL-, PHENYLMETHYL ESTER/CN
E6 1 3-BUTENOIC ACID, 2-PHENYL-/CN
E7 1 3-BUTENOIC ACID, 2-PHENYL-, METHYL ESTER/CN
E8 1 3-BUTENOIC ACID, 2-PHENYL-, SODIUM SALT/CN
E9 1 3-BUTENOIC ACID, 2-PHENYLETHENYL ESTER, (Z)-/CN
E10 1 3-BUTENOIC ACID, 2-PHENYLHYDRAZIDE/CN
E11 1 3-BUTENOIC ACID, 2-PHOSPHORANYLIDENE-/CN
E12 1 3-BUTENOIC ACID, 2-PIPERIDINO-/CN

=> e4
L9 1 "3-BUTENOIC ACID, 2-PHENOXY-4-PHENYL-, ETHYL ESTER, (E)-"/CN

=> d 19

L9 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2009 ACS on STN
RN 173602-54-5 REGISTRY
ED Entered STN: 28 Feb 1996
CN 3-Butenoic acid, 2-phenoxy-4-phenyl-, ethyl ester, (E)- (9CI)
(CA INDEX NAME)
FS STEREOSEARCH
MF C18 H18 O3
SR CA
LC STN Files: CA, CAPLUS, CASREACT

Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

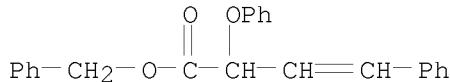
2 REFERENCES IN FILE CA (1907 TO DATE)
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> e5

L10 1 "3-BUTENOIC ACID, 2-PHENOXY-4-PHENYL-, PHENYLMETHYL ESTER"/CN

=> d 110

L10 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2009 ACS on STN
RN 841202-15-1 REGISTRY
ED Entered STN: 03 Mar 2005
CN 3-Butenoic acid, 2-phenoxy-4-phenyl-, phenylmethyl ester (CA
INDEX NAME)
OTHER NAMES:
CN Benzyl 2-phenoxy-4-phenylbut-3-enoate
MF C23 H20 O3
SR CA
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> file caplus

COST IN U.S. DOLLARS

SINCE FILE
ENTRY

TOTAL
SESSION

FULL ESTIMATED COST	16.24	251.76
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-1.64

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FILE COVERS 1907 - 17 Mar 2009 VOL 150 ISS 12
 FILE LAST UPDATED: 16 Mar 2009 (20090316/ED)

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This file contains CAS Registry Numbers for easy and accurate substance identification.

=> 19
 L11 2 L9

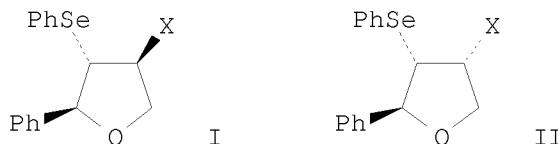
=> d 111 1-2 ti fbib abs

L11 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2009 ACS on STN
 TI A Stereospecific Access to Allylic Systems Using Rhodium(II)-Vinyl Carbenoid Insertion into Si-H, O-H, and N-H Bonds
 AN 1997:198048 CAPLUS
 DN 126:211638
 OREF 126:40925a,40926a
 TI A Stereospecific Access to Allylic Systems Using Rhodium(II)-Vinyl Carbenoid Insertion into Si-H, O-H, and N-H Bonds
 AU Bulugahapitiya, Priyadarshanie; Landais, Yannick; Parra-Rapado, Liliana; Planchenault, Denis; Weber, Valery
 CS College Propedeutique, Universite de Lausanne, Lausanne-Dorigny, 1015, Switz.
 SO Journal of Organic Chemistry (1997), 62(6), 1630-1641
 CODEN: JOCEAH; ISSN: 0022-3263
 PB American Chemical Society
 DT Journal
 LA English
 AB Rhodium-catalyzed decomposition of α -vinyl diazo esters in the presence of silanes, alcs., ethers, amines, and thiols has been shown to produce the corresponding α -silyl, α -hydroxy, α -alkoxy, α -amino, and α -thioalkoxy esters in generally good yield with a complete retention of the stereochem. of the double bond of the diazo

precursor. An extension of the process in homochiral series has also been devised using either a chiral auxiliary attached to the ester function or achiral α -vinyl diazo esters and Doyle's chiral catalyst Rh₂(MEPY)4. In the former approach, pantolactone as chiral auxiliary gave diastereoselectivities of up to 70%, while the second approach produced the desired allylsilane with ee as high as 72%. On the other hand, Rh₂(MEPY)4-catalyzed insertion into the O-H bond of water led to poor or no enantioselectivity in good agreement with recent literature reports.

RE.CNT 119 THERE ARE 119 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2009 ACS on STN
 TI Electronic versus steric effects in 5-endo-trig-like electrophilic cyclizations
 AN 1995:974892 CAPLUS
 DN 124:176328
 OREF 124:32707a,32710a
 TI Electronic versus steric effects in 5-endo-trig-like electrophilic cyclizations
 AU Landais, Yannick; Planchenault, Denis
 CS Inst. de Chimie Organique, Univ. de Lausanne, Lausanne-Dorigny, 1015, Switz.
 SO Synlett (1995), (11), 1191-3
 CODEN: SYNLES; ISSN: 0936-5214
 PB Thieme
 DT Journal
 LA English
 OS CASREACT 124:176328
 GI



AB Electronically and sterically differentiated allylic substituents such as RO, NHPH, PhS, and PhSO₂ groups were used to demonstrate the influence of electronic and/or steric effects in the stereocontrol of the PhSeCl-promoted electrophilic 5-endo-trig-like cyclizations of 2-substituted-3-alkenols, (E)-PhCH:CHCHXCH₂OH (1, X = OH, OEt, OCH₂CF₃, OPh, NHPH, SPh). 1 Reacted with PhSeCl/K₂CO₃ to give predominantly the 2,4-trans-tetrahydrofuran I, however, the cis-2,4-diastereoisomer II was predominant for X = NHPH and SPh for reasons of electronic effects.

=> l10
 L12 1 L10

=> d l12 1 ti fbib abs

L12 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2009 ACS on STN
 TI Preparation of 4-phenyl-but-3-enoic acid derivatives, as peroxisome proliferator-activated receptors (PPAR) ligands, in particular PPAR α and PPAR γ agonists, for the treatment and prevention of diabetes, dyslipidemia, atherosclerosis
 AN 2005:119915 CAPLUS
 DN 142:219047
 TI Preparation of 4-phenyl-but-3-enoic acid derivatives, as peroxisome

proliferator-activated receptors (PPAR) ligands, in particular PPAR α
 and PPAR γ agonists, for the treatment and prevention of diabetes,
 dyslipidemia, atherosclerosis
 IN Zeiller, Jean Jacques; Dumas, Herve; Guyard Dangremont, Valerie; Berard,
 Isabelle; Contard, Francis; Guerrier, Daniel; Ferrand, Gerard; Bonhomme,
 Yves
 PA Merck Sante, Fr.
 SO Fr. Demande, 38 pp.
 CODEN: FRXXBL
 DT Patent
 LA French
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	FR 2858615	A1	20050211	FR 2003-9610	20030804
	FR 2858615	B1	20061222		
	AU 2004263254	A1	20050217	AU 2004-263254	20040714
				FR 2003-9610	A 20030804
				WO 2004-EP7776	W 20040714
	CA 2534493	A1	20050217	CA 2004-2534493	20040714
			FR 2003-9610	A 20030804	
			WO 2004-EP7776	W 20040714	
WO 2005014521	A1	20050217	WO 2004-EP7776	20040714	
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW:	BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
EP 1658260	A1	20060524	FR 2003-9610	A 20030804	
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK		EP 2004-740992	20040714	
			FR 2003-9610	A 20030804	
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JP 2007501190	T	20070125	JP 2006-522255	20040714	
			FR 2003-9610	A 20030804	
			WO 2004-EP7776	W 20040714	
US 20060178434	A1	20060810	US 2006-566995	20060202	
			FR 2003-9610	A 20030804	
			WO 2004-EP7776	W 20040714	
OS	CASREACT 142:219047; MARPAT 142:219047				
GI					

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB Title compds. I [wherein R1 = alkyl, (un)substituted heterocyclyl,
 (un)substituted aryl or/and (un)condensed with a (un)saturated monocyclic or
 polycyclic; R2, R3 = independently H, (un)substituted aryl; or R2R3 =
 alkylene; R = H, aryl/alkyl; their acid and base addition salts; with
 proviso; their derivs., solvates, and stereoisomers and their mixts., and
 their pharmaceutically acceptable salts] were prepared as peroxisome
 proliferator-activated receptors (PPAR)- α and PPAR γ agonists
 for treating diabetes, dyslipidemia, atherosclerosis (no data). For

example, II was prepared, in 4 steps, reacting 2-oxo-4-phenylbut-3-enoic acid sodium salt with methanol, followed by reduction, alkylation of the alc. with MeI, and saponification III at a concentration of 50 μ M was a PPAR α and PPAR γ agonist, showing induced luciferase activity via PPAR α /Gal4 and PPAR γ /Gal4 with a factor of induction of 2.3 and 6.4, resp. Thus, I and their compns. are useful for treating and preventing dyslipidemia, atherosclerosis and diabetes (no data).

RE.CNT 12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

=>
=> logoff hold
COST IN U.S. DOLLARS
FULL ESTIMATED COST
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)
CA SUBSCRIBER PRICE

	SINCE FILE ENTRY	TOTAL SESSION
COST IN U.S. DOLLARS	24.50	276.26
FULL ESTIMATED COST	-2.46	-4.10
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-2.46	-4.10

SESSION WILL BE HELD FOR 120 MINUTES
STN INTERNATIONAL SESSION SUSPENDED AT 06:56:16 ON 17 MAR 2009

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PASSWORD:

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FULL ESTIMATED COST
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)
CA SUBSCRIBER PRICE

	SINCE FILE ENTRY	TOTAL SESSION
COST IN U.S. DOLLARS	24.50	276.26
FULL ESTIMATED COST	-2.46	-4.10
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-2.46	-4.10

=> file reg
COST IN U.S. DOLLARS
FULL ESTIMATED COST
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)
CA SUBSCRIBER PRICE

	SINCE FILE ENTRY	TOTAL SESSION
COST IN U.S. DOLLARS	24.50	276.26
FULL ESTIMATED COST	-2.46	-4.10
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-2.46	-4.10

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STRUCTURE FILE UPDATES: 15 MAR 2009 HIGHEST RN 1121544-94-2
DICTIONARY FILE UPDATES: 15 MAR 2009 HIGHEST RN 1121544-94-2

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TSCA INFORMATION NOW CURRENT THROUGH January 9, 2009.

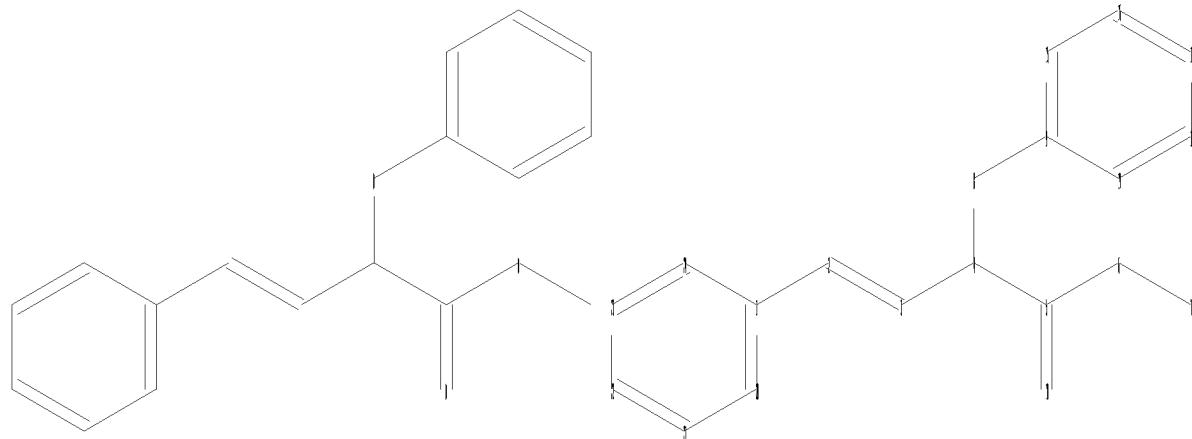
Please note that search-term pricing does apply when conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stndoc/properties.html>

=>

Uploading C:\Documents and Settings\PZucker\My Documents\Examination Auxillary files\10566995\10566995 eleted specie.str



chain nodes :
2 3 4 5 6 7 8 10
ring nodes :
1 9 15 16 17 18 19 20 21 22 23 24
chain bonds :
1-2 2-3 3-4 4-5 4-8 5-6 5-10 6-7 8-9
ring bonds :
1-20 1-24 9-15 9-19 15-16 16-17 17-18 18-19 20-21 21-22 22-23 23-24
exact/norm bonds :
4-8 5-6 5-10 6-7 8-9
exact bonds :
1-2 2-3 3-4 4-5
normalized bonds :
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G1:H,Cb

G2:Cb,Cy,Hy

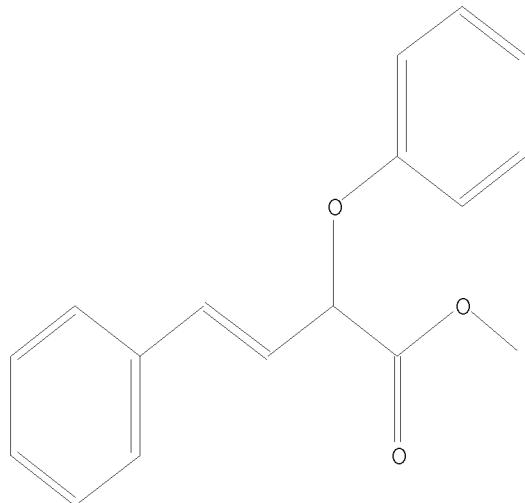
G3:H,Ak

Hydrogen count :

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Match level :
1:CLASS  2:CLASS  3:CLASS  4:CLASS  5:CLASS  6:CLASS  7:CLASS  8:CLASS  9:Atom
10:CLASS  15:Atom  16:Atom  17:Atom  18:Atom  19:Atom  20:Atom  21:Atom  22:Atom
23:Atom  24:Atom
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L13 STRUCTURE UPLOADED

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=> d 113
L13 HAS NO ANSWERS
L13            STR
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G1 H,Cb
G2 Cb,Cy,Hy
G3 H,Ak
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Structure attributes must be viewed using STN Express query preparation.

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FULL SCREEN SEARCH COMPLETED -        0 TO ITERATE

100.0% PROCESSED        0 ITERATIONS        0 ANSWERS
SEARCH TIME: 00.00.01
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L14 0 SEA EXA FUL L13

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100.0% PROCESSED        61 ITERATIONS        0 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE    **COMPLETE**
                          BATCH     **COMPLETE**
PROJECTED ITERATIONS:      752 TO      1688
PROJECTED ANSWERS:          0 TO        0
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L15 0 SEA SSS SAM L13

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100.0% PROCESSED 1206 ITERATIONS
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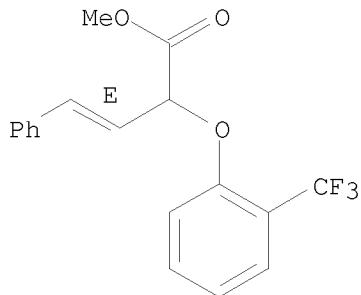
4 ANSWERS

L16 4 SEA SSS FUL L13

=> d scan

L16 4 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN
IN 3-Butenoic acid, 4-phenyl-2-[2-(trifluoromethyl)phenoxy]-, methyl ester,
(3E)-
MF C18 H15 F3 O3

Double bond geometry as shown.

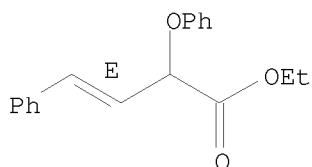


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):4

L16 4 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN
IN 3-Butenoic acid, 2-phenoxy-4-phenyl-, ethyl ester, (E)- (9CI)
MF C18 H18 O3

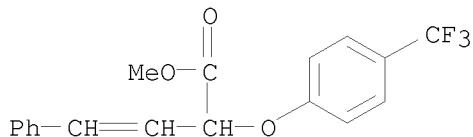
Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

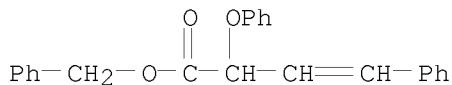
L16 4 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN
IN 3-Butenoic acid, 4-phenyl-2-[4-(trifluoromethyl)phenoxy]-, methyl ester

MF C18 H15 F3 O3



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L16 4 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN
IN 3-Butenoic acid, 2-phenoxy-4-phenyl-, phenylmethyl ester
MF C23 H20 O3



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

ALL ANSWERS HAVE BEEN SCANNED

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COST IN U.S. DOLLARS		ENTRY	SESSION
FULL ESTIMATED COST		249.92	526.18
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)		SINCE FILE	TOTAL
CA SUBSCRIBER PRICE		ENTRY	SESSION
		0.00	-4.10

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FILE COVERS 1907 - 17 Mar 2009 VOL 150 ISS 12
FILE LAST UPDATED: 16 Mar 2009 (20090316/ED)

Caplus now includes complete International Patent Classification (IPC) reclassification data for the third quarter of 2008.

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This file contains CAS Registry Numbers for easy and accurate substance identification.

=> l16
L17 3 L16

=> d 117 1-3 ti fbib abs

L17 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2009 ACS on STN
TI Preparation of 4-phenyl-but-3-enoic acid derivatives, as peroxisome proliferator-activated receptors (PPAR) ligands, in particular PPAR α and PPAR γ agonists, for the treatment and prevention of diabetes, dyslipidemia, atherosclerosis
AN 2005:119915 CAPLUS
DN 142:219047
TI Preparation of 4-phenyl-but-3-enoic acid derivatives, as peroxisome proliferator-activated receptors (PPAR) ligands, in particular PPAR α and PPAR γ agonists, for the treatment and prevention of diabetes, dyslipidemia, atherosclerosis
IN Zeiller, Jean Jacques; Dumas, Herve; Guyard Dangremont, Valerie; Berard, Isabelle; Contard, Francis; Guerrier, Daniel; Ferrand, Gerard; Bonhomme, Yves
PA Merck Sante, Fr.
SO Fr. Demande, 38 pp.
CODEN: FRXXBL
DT Patent
LA French
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	FR 2858615	A1	20050211	FR 2003-9610	20030804
	FR 2858615	B1	20061222		
	AU 2004263254	A1	20050217	AU 2004-263254	20040714
				FR 2003-9610	A 20030804
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EP	1658260	A1	20060524	EP 2004-740992	20040714
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				FR 2003-9610	A 20030804
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	JP 2007501190	T	20070125	JP 2006-522255	20040714
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US 20060178434	A1	20060810	WO 2004-EP7776	W 20040714
			US 2006-566995	20060202
			FR 2003-9610	A 20030804
			WO 2004-EP7776	W 20040714

OS CASREACT 142:219047; MARPAT 142:219047
GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

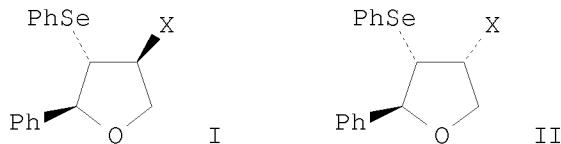
AB Title compds. I [wherein R₁ = alkyl, (un)substituted heterocycl, (un)substituted aryl or/and (un)condensed with a (un)saturated monocyclic or polycyclic; R₂, R₃ = independently H, (un)substituted aryl; or R₂R₃ = alkylene; R = H, aryl/alkyl; their acid and base addition salts; with proviso; their derivs., solvates, and stereoisomers and their mixts., and their pharmaceutically acceptable salts] were prepared as peroxisome proliferator-activated receptors (PPAR)- α and PPAR γ agonists for treating diabetes, dyslipidemia, atherosclerosis (no data). For example, II was prepared, in 4 steps, reacting 2-oxo-4-phenylbut-3-enoic acid sodium salt with methanol, followed by reduction, alkylation of the alc. with MeI, and saponification III at a concentration of 50 μ M was a PPAR α and PPAR γ agonist, showing induced luciferase activity via PPAR α /Gal4 and PPAR γ /Gal4 with a factor of induction of 2.3 and 6.4, resp. Thus, I and their compns. are useful for treating and preventing dyslipidemia, atherosclerosis and diabetes (no data).

RE.CNT 12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L17 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2009 ACS on STN
TI A Stereospecific Access to Allylic Systems Using Rhodium(II)-Vinyl Carbenoid Insertion into Si-H, O-H, and N-H Bonds
AN 1997:198048 CAPLUS
DN 126:211638
OREF 126:40925a, 40926a
TI A Stereospecific Access to Allylic Systems Using Rhodium(II)-Vinyl Carbenoid Insertion into Si-H, O-H, and N-H Bonds
AU Bulugahapitiya, Priyadarshanie; Landais, Yannick; Parra-Rapado, Liliana; Planchenault, Denis; Weber, Valery
CS College Propedeutique, Universite de Lausanne, Lausanne-Dorigny, 1015, Switz.
SO Journal of Organic Chemistry (1997), 62(6), 1630-1641
CODEN: JOCEAH; ISSN: 0022-3263
PB American Chemical Society
DT Journal
LA English
AB Rhodium-catalyzed decomposition of α -vinyl diazo esters in the presence of silanes, alcs., ethers, amines, and thiols has been shown to produce the corresponding α -silyl, α -hydroxy, α -alkoxy, α -amino, and α -thioalkoxy esters in generally good yield with a complete retention of the stereochem. of the double bond of the diazo precursor. An extension of the process in homochiral series has also been devised using either a chiral auxiliary attached to the ester function or achiral α -vinyl diazo esters and Doyle's chiral catalyst Rh₂(MEPY)₄. In the former approach, pantolactone as chiral auxiliary gave diastereoselectivities of up to 70%, while the second approach produced the desired allylsilane with ee as high as 72%. On the other hand, Rh₂(MEPY)₄-catalyzed insertion into the O-H bond of water led to poor or no enantioselectivity in good agreement with recent literature reports.

RE.CNT 119 THERE ARE 119 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L17 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2009 ACS on STN
TI Electronic versus steric effects in 5-endo-trig-like electrophilic cyclizations
AN 1995:974892 CAPLUS
DN 124:176328
OREF 124:32707a,32710a
TI Electronic versus steric effects in 5-endo-trig-like electrophilic cyclizations
AU Landais, Yannick; Planchenault, Denis
CS Inst. de Chimie Organique, Univ. de Lausanne, Lausanne-Dorigny, 1015,
Switz.
SO Synlett (1995), (11), 1191-3
CODEN: SYNLES; ISSN: 0936-5214
PB Thieme
DT Journal
LA English
OS CASREACT 124:176328
GI



AB Electronically and sterically differentiated allylic substituents such as RO, NHPH, PhS, and PhSO₂ groups were used to demonstrate the influence of electronic and/or steric effects in the stereocontrol of the PhSeCl-promoted electrophilic 5-endo-trig-like cyclizations of 2-substituted-3-alkenols, (E)-PhCH:CHCHXCH₂OH (I, X = OH, OEt, OCH₂CF₃, OPh, NHPH, SPh). 1 Reacted with PhSeCl/K₂CO₃ to give predominantly the 2,4-trans-tetrahydrofuran I, however, the cis-2,4-diastereoisomer II was predominant for X = NHPH and SPh for reasons of electronic effects.

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COST IN U.S. DOLLARS	SINCE FILE	TOTAL	
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FULL ESTIMATED COST	10.00	536.18	
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL	
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CA SUBSCRIBER PRICE	-2.46	-6.56	

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PASSWORD:

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FULL ESTIMATED COST	10.00	536.18
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-2.46	-6.56

=> d his

(FILE 'HOME' ENTERED AT 05:58:12 ON 17 MAR 2009)

FILE 'REGISTRY' ENTERED AT 05:58:40 ON 17 MAR 2009

L1 STRUCTURE UPLOADED
L2 0 SEARCH L1 SSS SAM
L3 29 SEARCH L1 SSS FULL

FILE 'CAPLUS' ENTERED AT 06:12:13 ON 17 MAR 2009

L4 14 L3

FILE 'REGISTRY' ENTERED AT 06:16:47 ON 17 MAR 2009

E 3-BUTENOIC ACID, 4-PHENYL-2-(4-(TRIFLUOROMETHYL)PHENOXY)-, ME
L5 1 E3

FILE 'CAPLUS' ENTERED AT 06:17:56 ON 17 MAR 2009

L6 1 L5

FILE 'REGISTRY' ENTERED AT 06:29:29 ON 17 MAR 2009

L7 1 E9

FILE 'CAPLUS' ENTERED AT 06:30:11 ON 17 MAR 2009

L8 1 L7

FILE 'REGISTRY' ENTERED AT 06:36:03 ON 17 MAR 2009

E 3-BUTENOIC ACID, 2-PHENOXY-4-PHENYL-, ETHYL ESTER/CN
L9 1 E4
L10 1 E5

FILE 'CAPLUS' ENTERED AT 06:37:34 ON 17 MAR 2009

L11 2 L9
L12 1 L10

FILE 'REGISTRY' ENTERED AT 07:43:24 ON 17 MAR 2009

L13 STRUCTURE UPLOADED
L14 0 SEARCH L13 EXACT FULL
L15 0 SEARCH L13 SSS SAM
L16 4 SEARCH L13 SSS FULL

FILE 'CAPLUS' ENTERED AT 07:45:53 ON 17 MAR 2009

L17 3 L16

=>

=> logoff hold

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	23.00	549.18
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL

	ENTRY	SESSION
CA SUBSCRIBER PRICE	-2.46	-6.56

SESSION WILL BE HELD FOR 120 MINUTES
STN INTERNATIONAL SESSION SUSPENDED AT 09:23:22 ON 17 MAR 2009

Connecting via Winsock to STN

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LOGINID:SSSPTA1623PAZ

PASSWORD:

* * * * * RECONNECTED TO STN INTERNATIONAL * * * * *
SESSION RESUMED IN FILE 'CAPLUS' AT 10:22:35 ON 17 MAR 2009
FILE 'CAPLUS' ENTERED AT 10:22:35 ON 17 MAR 2009
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COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	23.00	549.18
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-2.46	-6.56

=> logoff hold

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	23.50	549.68
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-2.46	-6.56

SESSION WILL BE HELD FOR 120 MINUTES
STN INTERNATIONAL SESSION SUSPENDED AT 10:22:54 ON 17 MAR 2009

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:SSSPTA1623PAZ

PASSWORD:

* * * * * RECONNECTED TO STN INTERNATIONAL * * * * *
SESSION RESUMED IN FILE 'CAPLUS' AT 10:24:06 ON 17 MAR 2009
FILE 'CAPLUS' ENTERED AT 10:24:06 ON 17 MAR 2009
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COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	23.50	549.68
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION

CA SUBSCRIBER PRICE

-2.46

-6.56

=> d 117 3 ti fbib abs

L17 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2009 ACS on STN

TI Electronic versus steric effects in 5-endo-trig-like electrophilic cyclizations

AN 1995:974892 CAPLUS

DN 124:176328

OREF 124:32707a,32710a

TI Electronic versus steric effects in 5-endo-trig-like electrophilic cyclizations

AU Landais, Yannick; Planchenault, Denis

CS Inst. de Chimie Organique, Univ. de Lausanne, Lausanne-Dorigny, 1015, Switz.

SO Synlett (1995), (11), 1191-3

CODEN: SYNLES; ISSN: 0936-5214

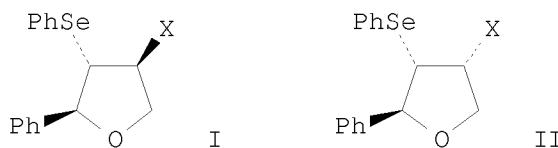
PB Thieme

DT Journal

LA English

OS CASREACT 124:176328

GI



AB Electronically and sterically differentiated allylic substituents such as RO, NPh, PhS, and PhSO₂ groups were used to demonstrate the influence of electronic and/or steric effects in the stereocontrol of the PhSeCl-promoted electrophilic 5-endo-trig-like cyclizations of 2-substituted-3-alkenols, (E)-PhCH:CHCH₂OH (1, X = OH, OEt, OCH₂CF₃, OPh, NPh, SPh). 1 Reacted with PhSeCl/K₂CO₃ to give predominantly the 2,4-trans-tetrahydrofuran I, however, the cis-2,4-diastereoisomer II was predominant for X = NPh and SPh for reasons of electronic effects.

=> d 117 3 it

L17 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2009 ACS on STN

IT Stereochemistry

Steric effect

Substituent effect

(of 5-endo-trig electrophilic cyclization reaction of 2-substituted 3-alkenols to give THF derivs.)

IT Insertion reaction

(rhodium-catalyzed insertion reactions of allylic diazoester)

IT Alcohols, preparation

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(alkenyl, preparation and 5-endo-trig electrophilic cyclization reaction of 2-substituted 3-alkenols to give THF derivs.)

IT Ring closure and formation

(endo-trig, of 2-substituted 3-alkenols to give THF derivs.)

IT 98184-95-3 173602-57-8 173602-58-9

RL: RCT (Reactant); RACT (Reactant or reagent)

(5-endo-trig electrophilic cyclization reaction of)

IT 5707-04-0, Phenylselenyl chloride
RL: RCT (Reactant); RACT (Reactant or reagent)
(5-endo-trig electrophilic cyclization reaction of 2-substituted
3-alkenols promoted by)

IT 15956-28-2, Dirhodium tetraacetate
RL: CAT (Catalyst use); USES (Uses)
(insertion reaction of allylic diazoester catalyzed by)

IT 173602-47-6P 173602-48-7P 173602-49-8P 173602-50-1P 173602-51-2P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)
(preparation and 5-endo-trig electrophilic cyclization reaction of)

IT 173602-52-3P 173602-53-4P 173602-54-5P 173602-55-6P
173602-56-7P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)
(preparation and lithium aluminum hydride-reduction of)

IT 166111-95-1P 166111-96-2P 173602-59-0P 173602-60-3P 173602-61-4P
173602-62-5P 173602-63-6P 173602-64-7P 173602-65-8P 173829-17-9P
173829-18-0P 173829-19-1P 173829-20-4P 173829-21-5P 173829-22-6P
173829-23-7P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

IT 62-53-3, Aniline, reactions 64-17-5, Ethanol, reactions 75-89-8,
2,2,2-Trifluoroethanol 108-95-2, Phenol, reactions 108-98-5,
Thiophenol, reactions
RL: RCT (Reactant); RACT (Reactant or reagent)
(rhodium-catalyzed insertion reaction into allylic diazoester)

IT 154841-78-8
RL: RCT (Reactant); RACT (Reactant or reagent)
(rhodium-catalyzed insertion reactions of)

=> 173602-54-5

REGISTRY INITIATED

Substance data SEARCH and crossover from CAS REGISTRY in progress...
Use DISPLAY HITSTR (or FHITSTR) to directly view retrieved structures.

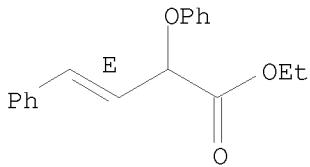
L19 2 L18

=> display hitstr l19 1-2

L19 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2009 ACS on STN
IT 173602-54-5P
RL: SPN (Synthetic preparation); PREP (Preparation)
(stereospecific access to allylic systems using rhodium(II)-vinyl
carbenoid insertion into Si-H, O-H, and N-H bonds)

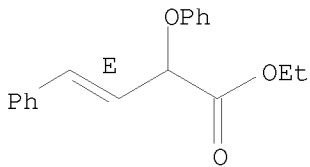
RN 173602-54-5 CAPLUS
CN 3-Butenoic acid, 2-phenoxy-4-phenyl-, ethyl ester, (E)- (9CI) (CA INDEX
NAME)

Double bond geometry as shown.



L19 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2009 ACS on STN
IT 173602-54-5P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(RACT (preparation and lithium aluminum hydride-reduction of))
RN 173602-54-5 CAPLUS
CN 3-Butenoic acid, 2-phenoxy-4-phenyl-, ethyl ester, (E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



=> logoff hold		
COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	14.02	568.56
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-7.38

SESSION WILL BE HELD FOR 120 MINUTES
STN INTERNATIONAL SESSION SUSPENDED AT 10:33:04 ON 17 MAR 2009

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:SSSPTA1623PAZ

PASSWORD:
* * * * * RECONNECTED TO STN INTERNATIONAL * * * * *
SESSION RESUMED IN FILE 'CAPLUS' AT 11:12:00 ON 17 MAR 2009
FILE 'CAPLUS' ENTERED AT 11:12:00 ON 17 MAR 2009
COPYRIGHT (C) 2009 AMERICAN CHEMICAL SOCIETY (ACS)

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	14.02	568.56

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-7.38
=> logoff hold		
COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	14.52	569.06
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-7.38

SESSION WILL BE HELD FOR 120 MINUTES
 STN INTERNATIONAL SESSION SUSPENDED AT 11:12:50 ON 17 MAR 2009

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

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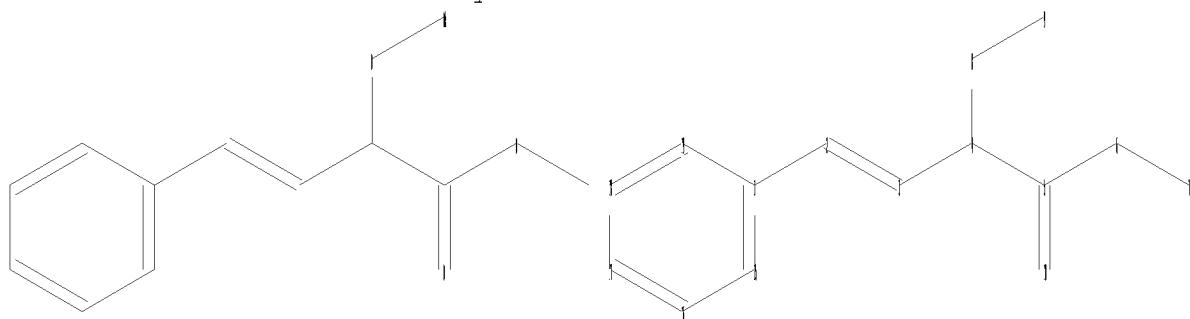
PASSWORD:

* * * * * RECONNECTED TO STN INTERNATIONAL * * * * *
 SESSION RESUMED IN FILE 'CAPLUS' AT 11:18:03 ON 17 MAR 2009
 FILE 'CAPLUS' ENTERED AT 11:18:03 ON 17 MAR 2009
 COPYRIGHT (C) 2009 AMERICAN CHEMICAL SOCIETY (ACS)

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	14.52	569.06
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-7.38

=>

Uploading C:\Documents and Settings\PZucker\My Documents\Examination Auxillary files\10566995\10566995 alkoxy .str



```

chain nodes :
2 3 4 5 6 7 8 9 10
ring nodes :
1 15 16 17 18 19
chain bonds :
1-2 2-3 3-4 4-5 4-8 5-6 5-10 6-7 8-9
ring bonds :
  
```

1-15 1-19 15-16 16-17 17-18 18-19
exact/norm bonds :
4-8 5-6 5-10 6-7 8-9
exact bonds :
1-2 2-3 3-4 4-5
normalized bonds :
1-15 1-19 15-16 16-17 17-18 18-19

G1:H,Cb

G2:Cb,Cy,Hy

G3:H,Ak

Hydrogen count :
2:>= minimum 1 3:>= minimum 1 4:>= minimum 1
Match level :
1:Atom 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 7:CLASS 8:CLASS 9:CLASS
10:CLASS 15:Atom 16:Atom 17:Atom 18:Atom 19:Atom

=> file reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	15.02	569.56
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-7.38

FILE 'REGISTRY' ENTERED AT 11:18:42 ON 17 MAR 2009
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2009 American Chemical Society (ACS)

Property values tagged with IC are from the ZIC/VINITI data file
provided by InfoChem.

STRUCTURE FILE UPDATES: 15 MAR 2009 HIGHEST RN 1121544-94-2
DICTIONARY FILE UPDATES: 15 MAR 2009 HIGHEST RN 1121544-94-2

New CAS Information Use Policies, enter HELP USAGETERMS for details.

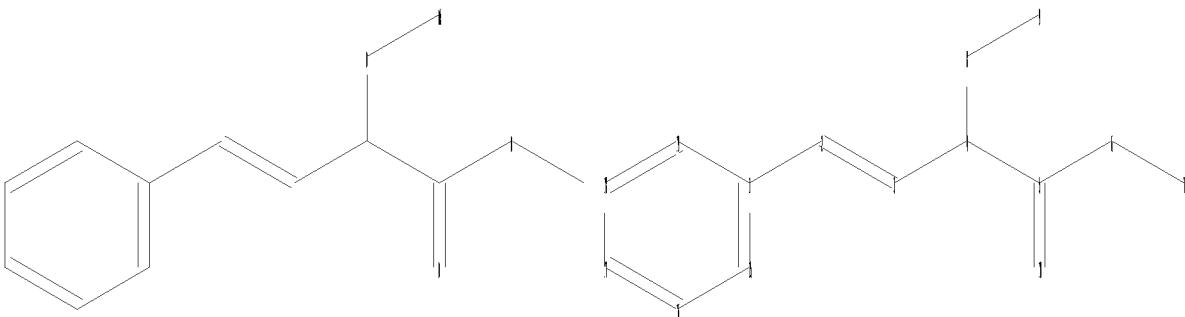
TSCA INFORMATION NOW CURRENT THROUGH January 9, 2009.

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and
predicted properties as well as tags indicating availability of
experimental property data in the original document. For information
on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stndoc/properties.html>

=>
Uploading C:\Documents and Settings\PZucker\My Documents\Examination Auxillary
files\10566995\10566995 alkoxy .str



```

chain nodes :
2 3 4 5 6 7 8 9 10
ring nodes :
1 15 16 17 18 19
chain bonds :
1-2 2-3 3-4 4-5 4-8 5-6 5-10 6-7 8-9
ring bonds :
1-15 1-19 15-16 16-17 17-18 18-19
exact/norm bonds :
4-8 5-6 5-10 6-7 8-9
exact bonds :
1-2 2-3 3-4 4-5
normalized bonds :
1-15 1-19 15-16 16-17 17-18 18-19

```

G1:H,Cb

G2:Cb,Cy,Hy

G3:H,Ak

```

Hydrogen count :
2:>= minimum 1 3:>= minimum 1 4:>= minimum 1
Match level :
1:Atom 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 7:CLASS 8:CLASS 9:CLASS
10:CLASS 15:Atom 16:Atom 17:Atom 18:Atom 19:Atom

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L20 STRUCTURE UPLOADED

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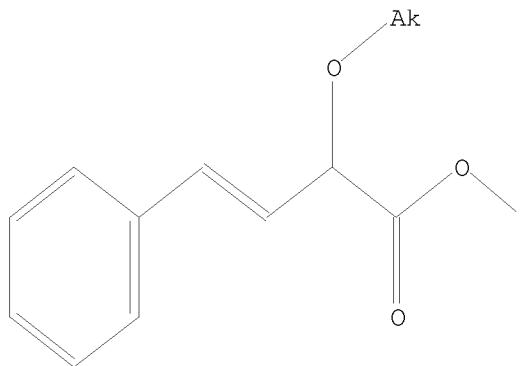
=> d 120\
L20 HAS NO ANSWERS
'L20\' IS NOT A VALID STRUCTURE FORMAT KEYWORD
ENTER STRUCTURE FORMAT (SIM), NOS:end

```

```

=> d 120
L20 HAS NO ANSWERS
L20 STR

```



G1 H,Cb

G2 Cb,Cy,Hy

G3 H,Ak

Structure attributes must be viewed using STN Express query preparation.

=> search 120 sss sam

SAMPLE SEARCH INITIATED 11:20:02 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 275 TO ITERATE

100.0% PROCESSED 275 ITERATIONS
SEARCH TIME: 00.00.01

1 ANSWERS

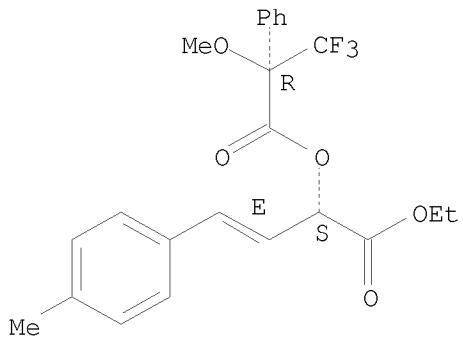
FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 4506 TO 6494
PROJECTED ANSWERS: 1 TO 80

L21 1 SEA SSS SAM L20

=> d scan

L21 1 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN
IN Benzeneacetic acid, α -methoxy- α -(trifluoromethyl)-,
(1S,2E)-1-(ethoxycarbonyl)-3-(4-methylphenyl)-2-propen-1-yl ester,
(α R)-
MF C23 H23 F3 O5

Absolute stereochemistry.
Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

ALL ANSWERS HAVE BEEN SCANNED

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=> search 120 sss full
FULL SEARCH INITIATED 11:20:30 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -      5432 TO ITERATE
```

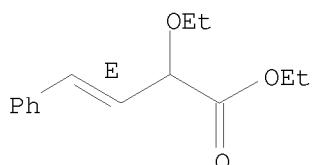
```
100.0% PROCESSED      5432 ITERATIONS           31 ANSWERS
SEARCH TIME: 00.00.01
```

L22 31 SEA SSS FUL L20

=> d scan

```
L22  31 ANSWERS  REGISTRY  COPYRIGHT 2009 ACS on STN
IN   3-Butenoic acid, 2-ethoxy-4-phenyl-, ethyl ester, (E)- (9CI)
MF   C14 H18 O3
```

Double bond geometry as shown.

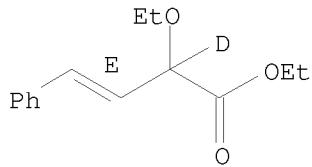


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):31

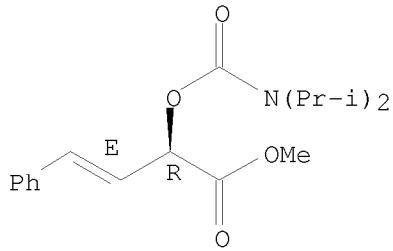
```
L22  31 ANSWERS  REGISTRY  COPYRIGHT 2009 ACS on STN
IN   3-Butenoic-2-d acid, 2-ethoxy-4-phenyl-, ethyl ester, (E)- (9CI)
MF   C14 H17 D O3
```

Double bond geometry as shown.



L22 31 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN
IN 3-Butenoic acid, 2-[[[bis(1-methylethyl)amino]carbonyl]oxy]-4-phenyl-,
methyl ester, (2R,3E)-
MF C18 H25 N O4

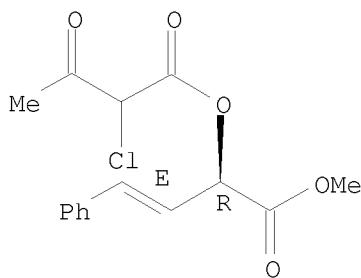
Absolute stereochemistry.
Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L22 31 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN
IN 3-Butenoic acid, 2-(2-chloro-1,3-dioxobutoxy)-4-phenyl-, methyl ester,
(2R,3E)-
MF C15 H15 Cl O5

Absolute stereochemistry.
Double bond geometry as shown.

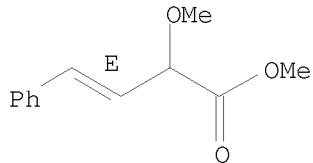


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L22 31 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN

IN 3-Butenoic acid, 2-methoxy-4-phenyl-, methyl ester, (3E)-
MF C12 H14 O3

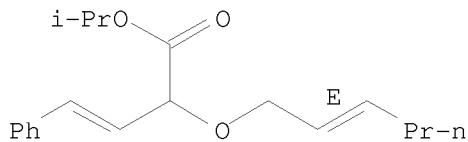
Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L22 31 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN
IN 3-Butenoic acid, 2-[(2E)-2-hexen-1-yloxy]-4-phenyl-, 1-methylethyl ester
MF C19 H26 O3

Double bond geometry as described by E or Z.

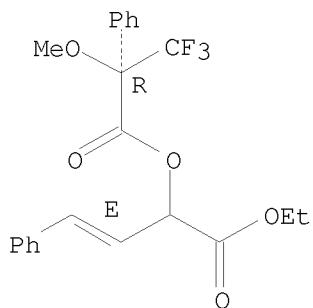


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L22 31 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN
IN Benzeneacetic acid, α -methoxy- α -(trifluoromethyl)-,
(2E)-1-(ethoxycarbonyl)-3-phenyl-2-propen-1-yl ester, (α R)-
MF C22 H21 F3 O5

Absolute stereochemistry.

Double bond geometry as shown.

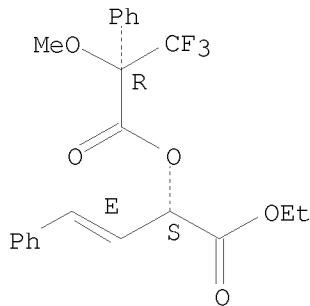


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L22 31 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN

IN Benzeneacetic acid, α -methoxy- α -(trifluoromethyl)-,
(1S,2E)-1-(ethoxycarbonyl)-3-phenyl-2-propen-1-yl ester, (α R)-
MF C22 H21 F3 O5

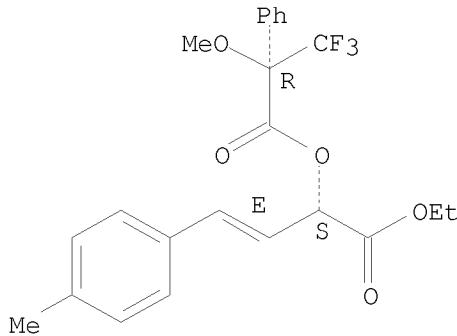
Absolute stereochemistry.
Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

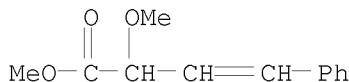
L22 31 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN
IN Benzeneacetic acid, α -methoxy- α -(trifluoromethyl)-,
(1S,2E)-1-(ethoxycarbonyl)-3-(4-methylphenyl)-2-propen-1-yl ester,
(α R)-
MF C23 H23 F3 O5

Absolute stereochemistry.
Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

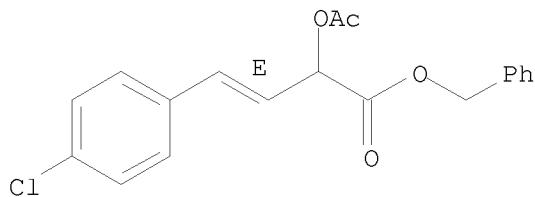
L22 31 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN
IN 3-Butenoic acid, 2-methoxy-4-phenyl-, methyl ester
MF C12 H14 O3



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L22 31 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN
 IN 3-Butenoic acid, 2-(acetyloxy)-4-(4-chlorophenyl)-, phenylmethyl ester, (3E)-
 MF C19 H17 Cl O4

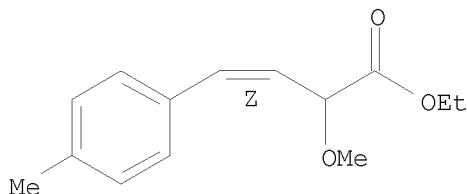
Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L22 31 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN
 IN 3-Butenoic acid, 2-methoxy-4-(4-methylphenyl)-, ethyl ester, (3Z)-
 MF C14 H18 O3

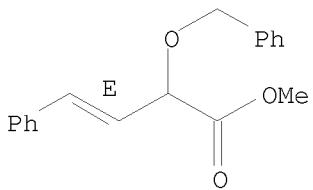
Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L22 31 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN
 IN 3-Butenoic acid, 4-phenyl-2-(phenylmethoxy)-, methyl ester, (3E)-
 MF C18 H18 O3

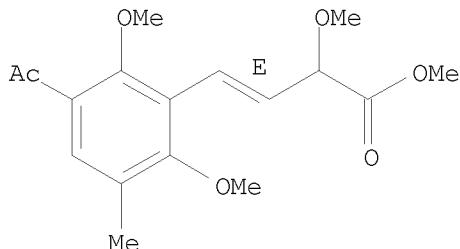
Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L22 31 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN
IN 3-Butenoic acid, 4-(3-acetyl-2,6-dimethoxy-5-methylphenyl)-2-methoxy-,
methyl ester, (3E)-
MF C17 H22 O6

Double bond geometry as shown.

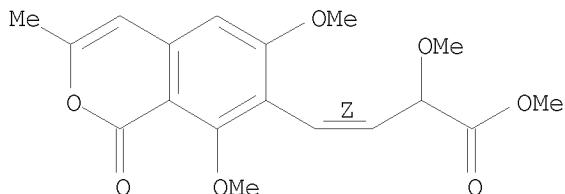


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L22 31 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN
IN 3-Butenoic acid, 4-(6,8-dimethoxy-3-methyl-1-oxo-1H-2-benzopyran-7-yl)-2-
methoxy-, methyl ester, (Z)-(-)- (8CI)
MF C18 H20 O7

Rotation (-).

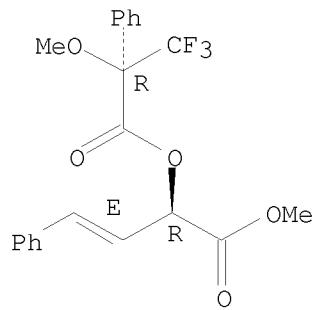
Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L22 31 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN
IN Benzeneacetic acid, α -methoxy- α -(trifluoromethyl)-,
1-(methoxycarbonyl)-3-phenyl-2-propenyl ester, [R-[R*, R*- (E)]]- (9CI)
MF C21 H19 F3 O5

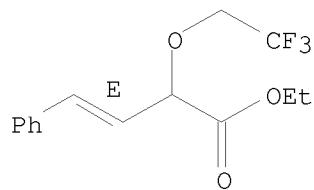
Absolute stereochemistry.
Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L22 31 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN
IN 3-Butenoic acid, 4-phenyl-2-(2,2,2-trifluoroethoxy)-, ethyl ester, (E)-
(9CI)
MF C14 H15 F3 O3

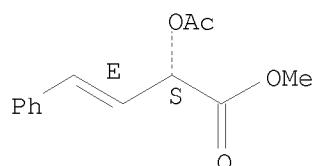
Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L22 31 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN
IN 3-Butenoic acid, 2-(acetyloxy)-4-phenyl-, methyl ester, (2S,3E)-
MF C13 H14 O4

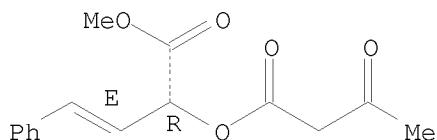
Absolute stereochemistry.
Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L22 31 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN
IN 3-Butenoic acid, 2-(1,3-dioxobutoxy)-4-phenyl-, methyl ester, (2R,3E)-
MF C15 H16 O5

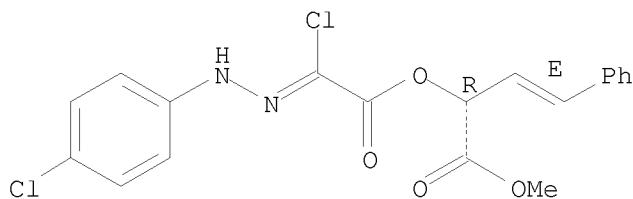
Absolute stereochemistry. Rotation (-).
Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

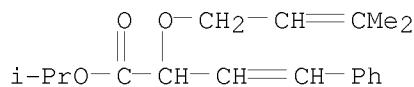
L22 31 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN
IN 3-Butenoic acid, 2-[{2-chloro-2-[2-(4-chlorophenyl)hydrazinylidene]acetyl}oxy]-4-phenyl-, methyl ester, (2R,3E)-
MF C19 H16 Cl2 N2 O4

Absolute stereochemistry.
Double bond geometry as described by E or Z.



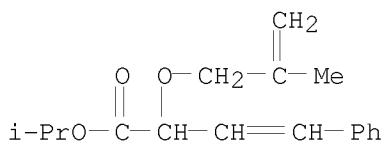
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L22 31 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN
IN 3-Butenoic acid, 2-[(3-methyl-2-buten-1-yl)oxy]-4-phenyl-, 1-methylethyl ester
MF C18 H24 O3



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

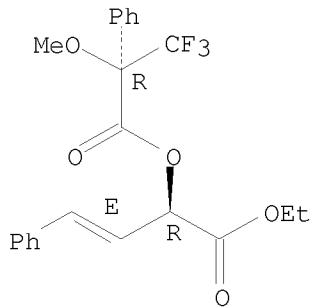
L22 31 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN
IN 3-Butenoic acid, 2-[(2-methyl-2-propen-1-yl)oxy]-4-phenyl-, 1-methylethyl ester
MF C17 H22 O3



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L22 31 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN
 IN Benzeneacetic acid, α -methoxy- α -(trifluoromethyl)-,
 (1R,2E)-1-(ethoxycarbonyl)-3-phenyl-2-propen-1-yl ester, (α R)-
 MF C22 H21 F3 O5

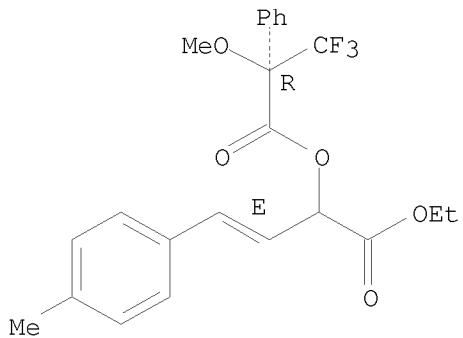
Absolute stereochemistry.
 Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

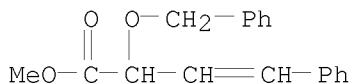
L22 31 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN
 IN Benzeneacetic acid, α -methoxy- α -(trifluoromethyl)-,
 (2E)-1-(ethoxycarbonyl)-3-(4-methylphenyl)-2-propen-1-yl ester,
 (α R)-
 MF C23 H23 F3 O5

Absolute stereochemistry.
 Double bond geometry as shown.



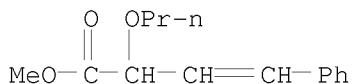
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L22 31 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN
 IN 3-Butenoic acid, 4-phenyl-2-(phenylmethoxy)-, methyl ester
 MF C18 H18 O3



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

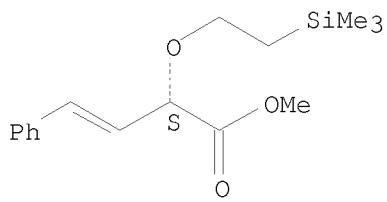
L22 31 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN
 IN 3-Butenoic acid, 4-phenyl-2-propoxy-, methyl ester
 MF C14 H18 O3



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

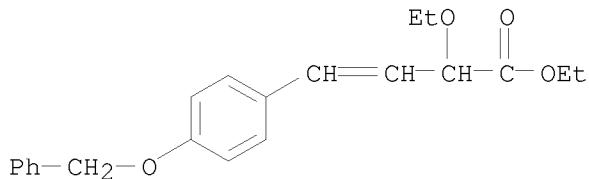
L22 31 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN
 IN 3-Butenoic acid, 4-phenyl-2-[2-(trimethylsilyl)ethoxy]-, methyl ester,
 (2S)-
 MF C16 H24 O3 Si

Absolute stereochemistry.
 Double bond geometry unknown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

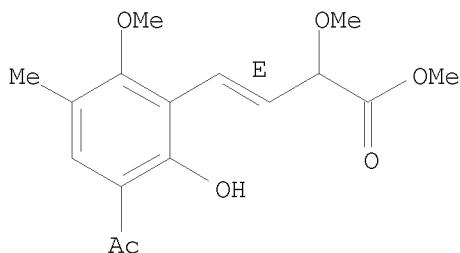
L22 31 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN
 IN 3-Butenoic acid, 2-ethoxy-4-[4-(phenylmethoxy)phenyl]-, ethyl ester
 MF C21 H24 O4



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

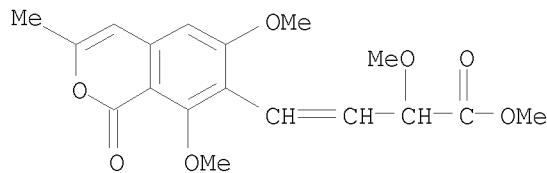
L22 31 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN
 IN 3-Butenoic acid, 4-(3-acetyl-2-hydroxy-6-methoxy-5-methylphenyl)-2-methoxy-, methyl ester, (3E)-
 MF C16 H20 O6

Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

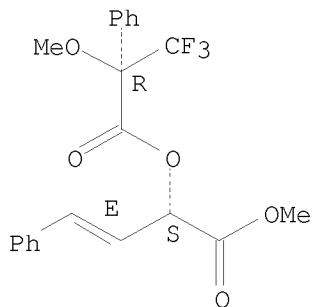
L22 31 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN
 IN 3-Butenoic acid, 4-(6,8-dimethoxy-3-methyl-1-oxo-1H-2-benzopyran-7-yl)-2-methoxy-, methyl ester
 MF C18 H20 O7



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L22 31 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN
 IN Benzeneacetic acid, α -methoxy- α -(trifluoromethyl)-,
 1-(methoxycarbonyl)-3-phenyl-2-propenyl ester, [S-[R*,S*-(E)]]- (9CI)
 MF C21 H19 F3 O5

Absolute stereochemistry.
 Double bond geometry as shown.



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L23 19 L22

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L23 ANSWER 10 OF 19 CAPLUS COPYRIGHT 2009 ACS on STN
TI Synthesis of α -allyloxy-substituted α,β -unsaturated esters via aldol condensation. Convenient access to highly substituted allyl vinyl ethers

L23 ANSWER 11 OF 19 CAPLUS COPYRIGHT 2009 ACS on STN
TI Regiochemistry of molybdenum-catalyzed O-H insertions of vinylcarbenoids

L23 ANSWER 12 OF 19 CAPLUS COPYRIGHT 2009 ACS on STN
TI The first case of asymmetric induction in intramolecular nitrile imine cycloadditions: synthesis of enantiopure 3-substituted 6-oxo-2,3,3a,5-tetrahydro-4-carbomethoxy-furo[3,4-c]pyrazoles

L23 ANSWER 13 OF 19 CAPLUS COPYRIGHT 2009 ACS on STN
TI Enantioselective lithiation and substitution of (E)-cinnamyl N,N-diisopropylcarbamate through use of (-)-sparteine complexes

L23 ANSWER 14 OF 19 CAPLUS COPYRIGHT 2009 ACS on STN
TI Chemoenzymic synthesis of enantiomerically pure alkene 1,2-diols and glycosides thereof

L23 ANSWER 15 OF 19 CAPLUS COPYRIGHT 2009 ACS on STN
TI A Stereospecific Access to Allylic Systems Using Rhodium(II)-Vinyl Carbenoid Insertion into Si-H, O-H, and N-H Bonds

L23 ANSWER 16 OF 19 CAPLUS COPYRIGHT 2009 ACS on STN
TI Electronic versus steric effects in 5-endo-trig-like electrophilic cyclizations

L23 ANSWER 17 OF 19 CAPLUS COPYRIGHT 2009 ACS on STN
TI Enantioselective reduction of β,γ -unsaturated α -keto acids

using *Bacillus stearothermophilus* lactate dehydrogenase: a new route to functionalized allylic alcohols

L23 ANSWER 18 OF 19 CAPLUS COPYRIGHT 2009 ACS on STN
TI Structure of canescin-A and -B

L23 ANSWER 19 OF 19 CAPLUS COPYRIGHT 2009 ACS on STN
TI The structure of canescin

=> d 123 10 ti fbib abs

L23 ANSWER 10 OF 19 CAPLUS COPYRIGHT 2009 ACS on STN
TI Synthesis of α -allyloxy-substituted α,β -unsaturated esters via aldol condensation. Convenient access to highly substituted allyl vinyl ethers
AN 2000:597718 CAPLUS
DN 133:309561
TI Synthesis of α -allyloxy-substituted α,β -unsaturated esters via aldol condensation. Convenient access to highly substituted allyl vinyl ethers
AU Hiersemann, Martin
CS Institut fur Organische Chemie der Technischen Universitat Dresden, Dresden, 01062, Germany
SO Synthesis (2000), (9), 1279-1290
CODEN: SYNTBF; ISSN: 0039-7881
PB Georg Thieme Verlag
DT Journal
LA English
OS CASREACT 133:309561
AB α -Allyloxy-substituted α,β -unsatd. esters were prepared in 5 steps from com. available starting materials. The key sequence of the synthesis is an aldol addition between an α -allyloxy-substituted ester and an aldehyde followed by mesylation and DBU mediated elimination to afford the 2-alkoxycarbonyl-substituted allyl vinyl ethers. E.g., [(2E)-2-hexenoxy]acetic acid Me ester was reacted with acetaldehyde using LDA to give Me(CH₂)₂CH:CHCH₂OCH[CH(OH)Me]CO₂Me (I) in 84% yield. The alc. group of I was mesylated followed by elimination of the mesyloxy group with DBU in THF to give 2-[(2E)-2-hexenoxy]-(2Z)-2-butenoic acid Me ester as the major diastereomer with 91% yield for the two steps. The E/Z ratio of the newly generated vinyl ether double bond is apparently determined by the steric bulk of the vinyl ether double bond substituent R₁. Z:E ratios from 3:2-9:1 were obtained.

RE.CNT 31 THERE ARE 31 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d 123 11-19 ti fbib abs

L23 ANSWER 11 OF 19 CAPLUS COPYRIGHT 2009 ACS on STN
TI Regiochemistry of molybdenum-catalyzed O-H insertions of vinylcarbenoids
AN 2000:443464 CAPLUS
DN 133:176928
TI Regiochemistry of molybdenum-catalyzed O-H insertions of vinylcarbenoids
AU Davies, H. M. L.; Yokota, Y.
CS Department of Chemistry, State University of New York at Buffalo, Buffalo, NY, 14260-3000, USA
SO Tetrahedron Letters (2000), 41(25), 4851-4854
CODEN: TELEAY; ISSN: 0040-4039
PB Elsevier Science Ltd.
DT Journal
LA English

AB Molybdenum-catalyzed decomposition of vinyldiazoacetates generates vinylcarbenoids that preferentially react with alcs. at the vinylogous position of the vinylcarbenoid rather than at the carbenoid site.

RE.CNT 25 THERE ARE 25 CITED REFERENCES AVAILABLE FOR THIS RECORD
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L23 ANSWER 12 OF 19 CAPLUS COPYRIGHT 2009 ACS on STN

TI The first case of asymmetric induction in intramolecular nitrile imine cycloadditions: synthesis of enantiopure 3-substituted 6-oxo-2,3,3a,5-tetrahydro-4-carbomethoxy-furo[3,4-c]pyrazoles

AN 1999:243929 CAPLUS

DN 131:18960

TI The first case of asymmetric induction in intramolecular nitrile imine cycloadditions: synthesis of enantiopure 3-substituted 6-oxo-2,3,3a,5-tetrahydro-4-carbomethoxy-furo[3,4-c]pyrazoles

AU Broggini, Gianluigi; Garanti, Luisa; Molteni, Giorgio; Zecchi, Gaetano
CS Dipartimento di Scienze Chimiche, Fisiche e Matematiche, Universita dell'Insubria, Como, 22100, Italy

SO Tetrahedron: Asymmetry (1999), 10(3), 487-492
CODEN: TASYE3; ISSN: 0957-4166

PB Elsevier Science Ltd.

DT Journal

LA English

OS CASREACT 131:18960

AB Intramol. cycloaddn. of homochiral nitrile imines, generated in situ from base treatment of the corresponding hydrazoneoyl chlorides, involves diastereoselective formation of the title compds. in the enantiomerically pure form. Starting materials in this synthesis were
[R-(E)]-2-Hydroxy-3-pentenoic acid Me ester,
[R-(E)]-2-Hydroxy-4-phenyl-3-butenoic acid Me ester and
2,2,6-Trimethyl-4H-1,3-dioxin-4-one.

RE.CNT 26 THERE ARE 26 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L23 ANSWER 13 OF 19 CAPLUS COPYRIGHT 2009 ACS on STN

TI Enantioselective lithiation and substitution of (E)-cinnamyl N,N-diisopropylcarbamate through use of (-)-sparteine complexes

AN 1998:739563 CAPLUS

DN 130:81264

TI Enantioselective lithiation and substitution of (E)-cinnamyl N,N-diisopropylcarbamate through use of (-)-sparteine complexes

AU Behrens, Karin; Froehlich, Roland; Meyer, Oliver; Hoppe, Dieter
CS Organisch-Chemisches Institut, Universitaet Muenster, Muenster, D-48149, Germany

SO European Journal of Organic Chemistry (1998), (11), 2397-2403
CODEN: EJOCFK; ISSN: 1434-193X

PB Wiley-VCH Verlag GmbH

DT Journal

LA English

OS CASREACT 130:81264

AB The title reaction leads to diastereomeric Li carbanion pairs that are configurationally unstable and equilibrate even at temps. <-50°. The initially formed (1S) epimer is rapidly converted to the thermodynamically more stable (1R) form (in PhMe solution). Carboxylation, acylation with acid chlorides, stannylation, and silylation take place at the α-position with stereoinversion (79-86% ee). Methylating agents attack the γ-position. Here, the stereochem. course depends on the leaving group, anti-SE' for the iodide (50% ee) and syn-SE' (48% ee) for the tosylate.

RE.CNT 40 THERE ARE 40 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L23 ANSWER 14 OF 19 CAPLUS COPYRIGHT 2009 ACS on STN
TI Chemoenzymic synthesis of enantiomerically pure alkene 1,2-diols and glycosides thereof
AN 1998:217991 CAPLUS
DN 128:294949
OREF 128:58463a, 58466a
TI Chemoenzymic synthesis of enantiomerically pure alkene 1,2-diols and glycosides thereof
AU Ziegler, Thomas; Bien, Frank; Jurisch, Claus
CS Institute of Organic Chemistry, University of Cologne, Cologne, D-50939, Germany
SO Tetrahedron: Asymmetry (1998), 9(5), 765-780
CODEN: TASYE3; ISSN: 0957-4166
PB Elsevier Science Ltd.
DT Journal
LA English
OS CASREACT 128:294949
AB The kinetic resolution of racemic 2-O-acylated 3-butene-1,2-diol and 1-O-acylated 3-butene-1,2-diol derivs. by enzymic saponification and enzymic esterification, resp., is investigated with several lipases and esterases. The resulting partially blocked enantiomers are glycosylated with glycosyl halides and trichloroacetimidates, resp.

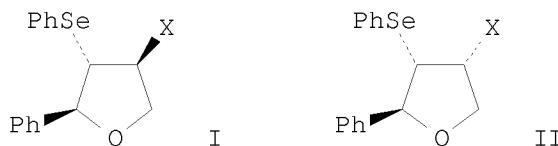
RE.CNT 40 THERE ARE 40 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L23 ANSWER 15 OF 19 CAPLUS COPYRIGHT 2009 ACS on STN
TI A Stereospecific Access to Allylic Systems Using Rhodium(II)-Vinyl Carbenoid Insertion into Si-H, O-H, and N-H Bonds
AN 1997:198048 CAPLUS
DN 126:211638
OREF 126:40925a, 40926a
TI A Stereospecific Access to Allylic Systems Using Rhodium(II)-Vinyl Carbenoid Insertion into Si-H, O-H, and N-H Bonds
AU Bulugahapitiya, Priyadarshanie; Landais, Yannick; Parra-Rapado, Liliana; Planchenault, Denis; Weber, Valery
CS College Propedeutique, Universite de Lausanne, Lausanne-Dorigny, 1015, Switz.
SO Journal of Organic Chemistry (1997), 62(6), 1630-1641
CODEN: JOCEAH; ISSN: 0022-3263
PB American Chemical Society
DT Journal
LA English
AB Rhodium-catalyzed decomposition of α -vinyl diazo esters in the presence of silanes, alcs., ethers, amines, and thiols has been shown to produce the corresponding α -silyl, α -hydroxy, α -alkoxy, α -amino, and α -thioalkoxy esters in generally good yield with a complete retention of the stereochem. of the double bond of the diazo precursor. An extension of the process in homochiral series has also been devised using either a chiral auxiliary attached to the ester function or achiral α -vinyl diazo esters and Doyle's chiral catalyst Rh₂(MEPY)4. In the former approach, pantolactone as chiral auxiliary gave diastereoselectivities of up to 70%, while the second approach produced the desired allylsilane with ee as high as 72%. On the other hand, Rh₂(MEPY)4-catalyzed insertion into the O-H bond of water led to poor or no enantioselectivity in good agreement with recent literature reports.

RE.CNT 119 THERE ARE 119 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L23 ANSWER 16 OF 19 CAPLUS COPYRIGHT 2009 ACS on STN
TI Electronic versus steric effects in 5-endo-trig-like electrophilic cyclizations
AN 1995:974892 CAPLUS

DN 124:176328
 OREF 124:32707a, 32710a
 TI Electronic versus steric effects in 5-endo-trig-like electrophilic cyclizations
 AU Landais, Yannick; Planchenault, Denis
 CS Inst. de Chimie Organique, Univ. de Lausanne, Lausanne-Dorigny, 1015, Switz.
 SO Synlett (1995), (11), 1191-3
 CODEN: SYNLES; ISSN: 0936-5214
 PB Thieme
 DT Journal
 LA English
 OS CASREACT 124:176328
 GI



AB Electronically and sterically differentiated allylic substituents such as RO, NPh, PhS, and PhSO₂ groups were used to demonstrate the influence of electronic and/or steric effects in the stereocontrol of the PhSeCl-promoted electrophilic 5-endo-trig-like cyclizations of 2-substituted-3-alkenols, (E)-PhCH:CHCHXCH₂OH (1, X = OH, OEt, OCH₂CF₃, OPh, NPh, SPh). 1 Reacted with PhSeCl/K₂CO₃ to give predominantly the 2,4-trans-tetrahydrofuran I, however, the cis-2,4-diastereoisomer II was predominant for X = NPh and SPh for reasons of electronic effects.

L23 ANSWER 17 OF 19 CAPLUS COPYRIGHT 2009 ACS on STN
 TI Enantioselective reduction of β,γ -unsaturated α -keto acids using *Bacillus stearothermophilus* lactate dehydrogenase: a new route to functionalized allylic alcohols
 AN 1992:193680 CAPLUS
 DN 116:193680
 OREF 116:32805a, 32808a
 TI Enantioselective reduction of β,γ -unsaturated α -keto acids using *Bacillus stearothermophilus* lactate dehydrogenase: a new route to functionalized allylic alcohols
 AU Casy, Guy; Lee, Thomas V.; Lovell, Helen
 CS Sch. Chem., Univ. Bristol, Bristol, BS8 1TS, UK
 SO Tetrahedron Letters (1992), 33(6), 817-20
 CODEN: TELEAY; ISSN: 0040-4039
 DT Journal
 LA English
 OS CASREACT 116:193680
 AB The enantioselective reduction of α -keto acids, catalyzed by lactate dehydrogenase, was extended to β,γ -unsatd. substrates, providing functionalized allylic alcs. in high optical purity. The stereoselective reduction of potassium 2-oxo-4-phenyl-3-butenoate catalyzed by *Bacillus stearothermophilus* lactate dehydrogenase gave (S)-2-hydroxy-4-phenyl-3-butenoic acid in 85% yield and in 98% enantiomeric excess.

L23 ANSWER 18 OF 19 CAPLUS COPYRIGHT 2009 ACS on STN
 TI Structure of canescin-A and -B
 AN 1969:501648 CAPLUS
 DN 71:101648

OREF 71:18925a,18928a
TI Structure of canescin-A and -B
AU Birch, Arthur J.; Birkinshaw, J. H.; Chaplen, P.; Mo, Lucy; Manchanda, A.
H.; Pelter, Andrew; Riano-Martin, M.
CS Aust. Nat. Univ., Canberra, Australia
SO Australian Journal of Chemistry (1969), 22(9), 1933-41
CODEN: AJCHAS; ISSN: 0004-9425
DT Journal
LA English
GI For diagram(s), see printed CA Issue.
AB Canescin from aspergillus malignus consists of a mixture of the
stereoisomers (I) (canescin-A) and (II) (canescin-B). The structure is
established by reactions and by spectra.

L23 ANSWER 19 OF 19 CAPLUS COPYRIGHT 2009 ACS on STN
TI The structure of canescin
AN 1965:51507 CAPLUS
DN 62:51507
OREF 62:9096e-g
TI The structure of canescin
AU Birch, A. J.; Loh, Lucy; Pelter, A.; Birkinshaw, J. H.; Chaplen, P.;
Manchanda, A. H.; Riano-Martin, M.
CS Univ. Manchester, UK
SO Tetrahedron Letters (1965), (1), 29-32
CODEN: TELEAY; ISSN: 0040-4039
DT Journal
LA English
GI For diagram(s), see printed CA Issue.
AB Canescin (I), C15H14O7, m. 200-2°, [α] 23D 17.8°,
contains 1 OMe, 1 CMe, and 1γ-lactone group. CH2N2 in Et2O gave a
mono-Me deriv; in MeOH a di-Me derivative I and the mono-Me derivative with MeI
and K2CO3 in Me2CO gave a tri-Me derivative (II), C18H20O7, m. 123-4°,
[α]D --113° missing the lactone group and 2 H atoms. The
elimination involved the lactone group. II was oxidized with KMnO4 to
4,6-dimethoxy-1,2,5-benzenetricarboxylic acid (III). Pyrolysis of I under
N afforded pyrocanescin (IV), C13H10O4, m. 143-4°, [α]D
0°. Methylation of IV gave a mono-Me derivative (V) in which the
lactone group disappeared. Alkaline hydrolysis of V gave an oxo ester,
C15H16O5, containing a carboxyl group and an unconjugated carbonyl group.
These data together with ir and N.M.R. spectra indicated IV to have the
structure given. Consideration of uv data indicated that II had the
structure shown; ozonolysis and KMnO4 oxidation of the dihydro compound gave
succinic acid and the mono-Me ester of 2-methoxyglutaric acid, thus
reinforcing the given structure for II. These data, together with N.M.R.
spectra, assigned the structure shown to I. Many of the conclusions were
based on ir spectra.

=>
=> d 123 17 it

L23 ANSWER 17 OF 19 CAPLUS COPYRIGHT 2009 ACS on STN
IT Stereochemistry
(of reduction of β,γ-unsatd. α-keto acids by Bacillus
stearothermophilus lactate dehydrogenase)
IT Regiochemistry
(of reduction of β,γ-unsatd. α-oxo acids by Bacillus
stearothermophilus lactate dehydrogenase)
IT Alcohols, preparation
RL: SPN (Synthetic preparation); PREP (Preparation)
(allyl, chiral, preparation of, by stereoselective reduction of
oxoalkanoate by

Bacillus stearothermophilus lactate dehydrogenase)
IT Reduction
(enzymic, stereoselective, of α -keto acids by Bacillus stearothermophilus lactate dehydrogenase)
IT Kinetics of reduction
(enzymic, stereoselective, of α -keto acids, by Bacillus stearothermophilus lactate dehydrogenase)
IT Carboxylic acids, reactions
RL: RCT (Reactant); RACT (Reactant or reagent)
(α,β -unsatd., oxo, stereoselective reduction of, by Bacillus stearothermophilus lactate dehydrogenase)
IT Carboxylic acids, preparation
RL: SPN (Synthetic preparation); PREP (Preparation)
(β,γ -unsatd., hydroxy, chiral, preparation of, by stereoselective reduction of oxo carboxylic acids by Bacillus stearothermophilus lactate dehydrogenase)
IT 9001-60-9, Lactate dehydrogenase
RL: RCT (Reactant); RACT (Reactant or reagent)
(catalyst for stereoselective, regioselective reduction of β,γ -unsatd. α -oxo acids)
IT 50331-71-0
RL: PROC (Process)
(conversion of, to sodium salt)
IT 37934-24-0P, Sodium 3-methyl-2-oxo-3-butenoate
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and stereoselective reduction of, acillus stearothermophilus lactate dehydrogenase)
IT 96930-63-1P 140653-90-3P 140653-91-4P 140653-92-5P
140653-93-6P 140653-95-8P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
IT 140653-94-7P, (S)-2-Hydroxy-3-methyl-3-butenoic acid 140696-22-6P
140696-23-7P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of, by stereoselective reduction of oxoalkanoate by Bacillus stearothermophilus lactate dehydrogenase)
IT 140653-88-9
RL: RCT (Reactant); RACT (Reactant or reagent)
(stereoselective reduction by Bacillus stearothermophilus lactate dehydrogenase)
IT 1914-59-6, (E)-2-Oxo-4-phenyl-3-butenoic acid
RL: RCT (Reactant); RACT (Reactant or reagent)
(stereoselective reduction of, by Bacillus stearothermophilus lactate dehydrogenase)
IT 759-05-7, 3-Methyl-2-oxobutanoic acid 1821-02-9, 2-Oxopentanoic acid
RL: RCT (Reactant); RACT (Reactant or reagent)
(stereoselective reduction of, by Bacillus stearothermophilus lactate dehydrogenase, enzyme binding in)
IT 68982-84-3, (E)-2-Oxo-3-pentenoic acid 140653-87-8,
3-Methyl-2-oxo-3-butenoic acid
RL: RCT (Reactant); RACT (Reactant or reagent)
(stereoselective reduction of, by Bacillus stearothermophilus lactate dehydrogenase, kinetics of)
IT 140653-89-0, Potassium (E)-2-oxo-4-phenyl-3-butenoate
RL: RCT (Reactant); RACT (Reactant or reagent)
(stereoselective reduction of, Bacillus stearothermophilus lactate dehydrogenase)

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L24 1 140653-92-5/RN

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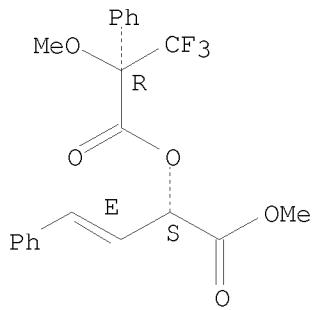
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 DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:y

L24 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2009 ACS on STN
 RN 140653-92-5 REGISTRY
 CN Benzeneacetic acid, α -methoxy- α -(trifluoromethyl)-,
 1-(methoxycarbonyl)-3-phenyl-2-propenyl ester, [S-[R*,S*-(E)]]- (9CI) (CA
 INDEX NAME)
 FS STEREOSEARCH
 MF C21 H19 F3 O5
 SR CA
 LC STN Files: CA, CAPLUS
 DT.CA CAplus document type: Journal
 RL.NP Roles from non-patents: PREP (Preparation)

Absolute stereochemistry.
 Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> SET NOTICE LOGIN DISPLAY

NOTICE SET TO OFF FOR DISPLAY COMMAND
SET COMMAND COMPLETED

=>

=> file reg			
COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION	
FULL ESTIMATED COST	3.01	823.51	
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION	
CA SUBSCRIBER PRICE	0.00	-15.58	

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STRUCTURE FILE UPDATES: 15 MAR 2009 HIGHEST RN 1121544-94-2
DICTIONARY FILE UPDATES: 15 MAR 2009 HIGHEST RN 1121544-94-2

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TSCA INFORMATION NOW CURRENT THROUGH January 9, 2009.

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<http://www.cas.org/support/stngen/stndoc/properties.html>

=> e 3-Butenoic acid, 2-methoxy-4-(4-methylphenyl)-, ethyl ester, /cn
E1 1 3-BUTENOIC ACID, 2-METHOXY-3-METHYL-2-((2-(PHENYLMETHYL)-4-THIAZOLYL)CARBONYL)AMINO)-, METHYL ESTER/CN
E2 1 3-BUTENOIC ACID, 2-METHOXY-4,4-DIPHENYL-, METHYL ESTER/CN
E3 0 --> 3-BUTENOIC ACID, 2-METHOXY-4-(4-METHYLPHENYL)-, ETHYL ESTER, /CN
E4 1 3-BUTENOIC ACID, 2-METHOXY-4-(4-METHYLPHENYL)-, ETHYL ESTER, (3Z)-/CN
E5 1 3-BUTENOIC ACID, 2-METHOXY-4-(TRIMETHYLSILYL)-3-((TRIMETHYLSILYL)OXY)-, TRIMETHYLSILYL ESTER, (E)-/CN
E6 1 3-BUTENOIC ACID, 2-METHOXY-4-PHENYL-/CN
E7 1 3-BUTENOIC ACID, 2-METHOXY-4-PHENYL-, (3E)-/CN
E8 1 3-BUTENOIC ACID, 2-METHOXY-4-PHENYL-, (3S)-TETRAHYDRO-4,4-DIMETHYL-2-OXO-3-FURANYL ESTER, (2R,3E)-/CN
E9 1 3-BUTENOIC ACID, 2-METHOXY-4-PHENYL-, METHYL ESTER/CN
E10 1 3-BUTENOIC ACID, 2-METHOXY-4-PHENYL-, METHYL ESTER, (3E)-/CN
E11 1 3-BUTENOIC ACID, 2-METHOXY-4-PHENYL-, TETRAHYDRO-4,4-DIMETHYL-2-OXO-3-FURANYL ESTER, (R-(R*,S*-(E)))-/CN
E12 1 3-BUTENOIC ACID, 2-METHOXYETHYL ESTER/CN

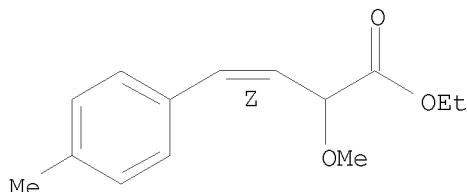
=> e4

L25 1 "3-BUTENOIC ACID, 2-METHOXY-4-(4-METHYLPHENYL)-, ETHYL ESTER, (3Z)-"/CN

=> d 125

L25 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2009 ACS on STN
RN 890655-40-0 REGISTRY
ED Entered STN: 05 Jul 2006
CN 3-Butenoic acid, 2-methoxy-4-(4-methylphenyl)-, ethyl ester, (3Z)-
(CA INDEX NAME)
FS STEREOSEARCH
MF C14 H18 O3
SR CA
LC STN Files: CA, CAPLUS, CASREACT

Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> file caplus

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	8.36	831.87
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-15.58

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FILE COVERS 1907 - 17 Mar 2009 VOL 150 ISS 12
FILE LAST UPDATED: 16 Mar 2009 (20090316/ED)

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This file contains CAS Registry Numbers for easy and accurate substance identification.

=> l25
L26 1 L25

=> d 126

L26 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2009 ACS on STN
AN 2006:373195 CAPLUS
DN 145:62810
TI Expeditious syntheses of conjugated allenyl esters and oxazoles through a cascade reaction of α -alkynyl malonates under alkaline conditions
AU Sano, Shigeki; Shimizu, Hisashi; Kim, Kweon; Lee, Woo Song; Shiro, Motoo; Nagao, Yoshimitsu
CS Graduate School of Pharmaceutical Sciences, The University of Tokushima, Sho-machi, Tokushima, 770-8505, Japan
SO Chemical & Pharmaceutical Bulletin (2006), 54(2), 196-203
CODEN: CPBTAL; ISSN: 0009-2363
PB Pharmaceutical Society of Japan
DT Journal
LA English
OS CASREACT 145:62810
RE.CNT 50 THERE ARE 50 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> file reg
COST IN U.S. DOLLARS SINCE FILE TOTAL
ENTRY SESSION
FULL ESTIMATED COST 2.25 834.12

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) SINCE FILE TOTAL
ENTRY SESSION
CA SUBSCRIBER PRICE 0.00 -15.58

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DICTIONARY FILE UPDATES: 15 MAR 2009 HIGHEST RN 1121544-94-2

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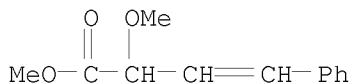
REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stndoc/properties.html>

=> e9
L27 1 "3-BUTENOIC ACID, 2-METHOXY-4-PHENYL-, METHYL ESTER"/CN

=> d 127

L27 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2009 ACS on STN
RN 841202-02-6 REGISTRY
ED Entered STN: 03 Mar 2005
CN 3-Butenoic acid, 2-methoxy-4-phenyl-, methyl ester (CA INDEX
NAME)
OTHER NAMES:
CN Methyl 2-methoxy-4-phenylbut-3-enoate
MF C12 H14 O3
SR CA
LC STN Files: CA, CAPLUS, CASREACT, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	7.88	842.00
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION

CA SUBSCRIBER PRICE

0.00 -15.58

FILE 'CAPLUS' ENTERED AT 12:01:10 ON 17 MAR 2009
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FILE LAST UPDATED: 16 Mar 2009 (20090316/ED)

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This file contains CAS Registry Numbers for easy and accurate substance identification.

=> l27
L28 1 L27

=> d 128

L28 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2009 ACS on STN
AN 2005:119915 CAPLUS
DN 142:219047
TI Preparation of 4-phenyl-but-3-enoic acid derivatives, as peroxisome proliferator-activated receptors (PPAR) ligands, in particular PPAR α and PPAR γ agonists, for the treatment and prevention of diabetes, dyslipidemia, atherosclerosis
IN Zeiller, Jean Jacques; Dumas, Herve; Guyard Dangremont, Valerie; Berard, Isabelle; Contard, Francis; Guerrier, Daniel; Ferrand, Gerard; Bonhomme, Yves
PA Merck Sante, Fr.
SO Fr. Demande, 38 pp.
CODEN: FRXXBL
DT Patent
LA French
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	FR 2858615	A1	20050211	FR 2003-9610	20030804
	FR 2858615	B1	20061222		
	AU 2004263254	A1	20050217	AU 2004-263254	20040714
	CA 2534493	A1	20050217	CA 2004-2534493	20040714
	WO 2005014521	A1	20050217	WO 2004-EP7776	20040714

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH,
CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD,
GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,

LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI,
 NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY,
 TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
 RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM,
 AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK,
 EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE,
 SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE,
 SN, TD, TG
 EP 1658260 A1 20060524 EP 2004-740992 20040714
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
 IE, SI, LT, LV, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK
 JP 2007501190 T 20070125 JP 2006-522255 20040714
 US 20060178434 A1 20060810 US 2006-566995 20060202
 PRAI FR 2003-9610 A 20030804
 WO 2004-EP7776 W 20040714
 OS CASREACT 142:219047; MARPAT 142:219047
 RE.CNT 12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> file reg			
COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION	
FULL ESTIMATED COST	2.75	844.75	
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION	
CA SUBSCRIBER PRICE	0.00	-15.58	

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STRUCTURE FILE UPDATES: 15 MAR 2009 HIGHEST RN 1121544-94-2
 DICTIONARY FILE UPDATES: 15 MAR 2009 HIGHEST RN 1121544-94-2

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<http://www.cas.org/support/stngen/stndoc/properties.html>

=> e10
 L29 1 "3-BUTENOIC ACID, 2-METHOXY-4-PHENYL-, METHYL ESTER, (3E)-"/CN

=> file caplus			
COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION	
FULL ESTIMATED COST	5.83	850.58	

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-15.58

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FILE COVERS 1907 - 17 Mar 2009 VOL 150 ISS 12
 FILE LAST UPDATED: 16 Mar 2009 (20090316/ED)

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This file contains CAS Registry Numbers for easy and accurate substance identification.

=> l29
 L30 3 L29

=> d 130 1-3 ti fbib abs

L30 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2009 ACS on STN
 TI Influence of electron-deficient ruthenium(I) carbonyl carboxylates on the vinylogous reactivity of metal carbenoids
 AN 2008:365067 CAPLUS
 DN 148:508880
 TI Influence of electron-deficient ruthenium(I) carbonyl carboxylates on the vinylogous reactivity of metal carbenoids
 AU Sevryugina, Yulia; Weaver, Beth; Hansen, Jorn; Thompson, Janelle; Davies, Huw M. L.; Petrukhina, Marina A.
 CS Department of Chemistry, University at Albany, State University of New York, Albany, NY, 12222, USA
 SO Organometallics (2008), 27(8), 1750-1757
 CODEN: ORGND7; ISSN: 0276-7333
 PB American Chemical Society
 DT Journal
 LA English
 AB Highly electrophilic ruthenium(I) dimeric mixed carbonyl-fluorocarboxylate complexes were prepared by reaction of Ru₃(CO)₁₂ with fluorinated carboxylic acids; the complexes exhibit catalytic activity in the cyclopropanation of styrene with Me phenyldiazoacetate. Reaction of RFCO₂H with Ru₃(CO)₁₂ gave the diruthenium(I) complexes [Ru₂(CO)₅(μ-O₂CRF)₂] [1-6; RF = CF₃, 2,4-(CF₃)₂C₆H₃, 3,5-(CF₃)₂C₆H₃, 2,3,4-F₃C₆H₂, 2,4,6-F₃C₆H₂, C₆F₅]; polymeric complexes [Ru₂(CO)₄(μ-O₂CRF)₂] [7, 8; RF = CF₃, 3,5-(CF₃)₂C₆H₃] were also prepared. Crystal structures for 4-6, 8 and for

ligand-terminated analogs [$\text{Ru}(\text{CO})_3(\mu-\text{O}_2\text{CRF})_2\text{Ru}(\text{CO})_2(2,3-\eta-\text{MeC}_6\text{H}_5)$] (9) and [$(\text{H}_2\text{O})\text{Ru}(\text{CO})_2(\mu-\text{O}_2\text{CF}_3)_2\text{Ru}(\text{CO})_2(\text{H}_2\text{O})$] (10) are reported. A particular advantage of these catalysts is their propensity to enhance vinylogous reactivity in the reactions of vinyl diazoacetates. The catalytic study was conducted on four known and four new ruthenium(I) mixed carbonyl carboxylate complexes 1-8. All complexes were prepared by a combination of solvent-free techniques: melt reactions of ruthenium carbonyl with a benzoic acid followed by gas-phase sublimation-deposition of the products under reduced pressure. X-ray crystallography characterization revealed a tetranuclear "dimer of dimers" type of structure for the complexes 4-6 and a polymeric chain for 8. Both motifs are built on diruthenium(I,I) units linked in the solid state by axial Ru \cdots O interactions. The solution behavior of the polynuclear ruthenium(I) complexes in solvents of varying coordination ability was investigated to show a breakage of weak Ru \cdots O contacts, resulting in the formation of one- and two-end open dimetal units.

RE.CNT 35 THERE ARE 35 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L30 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2009 ACS on STN
TI Chiral catalyst enhancement of diastereocontrol for O-H insertion reactions of styryl- and phenyldiazoacetate esters of pantolactone
AN 2002:586128 CAPLUS
DN 138:89461
TI Chiral catalyst enhancement of diastereocontrol for O-H insertion reactions of styryl- and phenyldiazoacetate esters of pantolactone
AU Doyle, Michael P.; Yan, Ming
CS Department of Chemistry, University of Arizona, Tucson, AZ, 85721-0041, USA
SO Tetrahedron Letters (2002), 43(34), 5929-5931
CODEN: TELEAY; ISSN: 0040-4039
PB Elsevier Science Ltd.
DT Journal
LA English
OS CASREACT 138:89461
AB The chiral dirhodium(II) catalyst $\text{Rh}_2(\text{MEAZ})_4$ (Me 4-oxo-2-azetidinecarboxylate) increases diastereocontrol for intermol. O-H insertion reactions of diazo esters having a chiral auxiliary over that achieved with $\text{Rh}_2(\text{OAc})_4$.

RE.CNT 26 THERE ARE 26 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L30 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2009 ACS on STN
TI Regiochemistry of molybdenum-catalyzed O-H insertions of vinylcarbenoids
AN 2000:443464 CAPLUS
DN 133:176928
TI Regiochemistry of molybdenum-catalyzed O-H insertions of vinylcarbenoids
AU Davies, H. M. L.; Yokota, Y.
CS Department of Chemistry, State University of New York at Buffalo, Buffalo, NY, 14260-3000, USA
SO Tetrahedron Letters (2000), 41(25), 4851-4854
CODEN: TELEAY; ISSN: 0040-4039
PB Elsevier Science Ltd.
DT Journal
LA English
AB Molybdenum-catalyzed decomposition of vinyl diazoacetates generates vinylcarbenoids that preferentially react with alcs. at the vinylogous position of the vinylcarbenoid rather than at the carbene site.

RE.CNT 25 THERE ARE 25 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> logoff hold

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	11.50	862.08
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-2.46	-18.04

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STN INTERNATIONAL SESSION SUSPENDED AT 12:06:52 ON 17 MAR 2009